

Energy Statistics of THAILAND 2010

รายงานสถิติพลังงาน
ของประเทศไทย 2553



สำนักงานนโยบาย
และแผนพลังงาน
กระทรวงพลังงาน

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บทนำ

สำนักงานนโยบายและแผนพลังงาน (สนพ.) เป็นหน่วยงานหนึ่งที่มีบทบาทสำคัญในกระทรวงพลังงาน มีภารกิจหลักในการวางนโยบายและแผนพลังงาน รวมถึงมาตรการในการบริหารจัดการพลังงานของประเทศ โดยคำนึงถึงการพัฒนา เศรษฐกิจ สังคม ควบคู่ไปกับการรักษาสิ่งแวดล้อม การดำเนินงานดังกล่าวมีความจำเป็นต้องใช้ข้อมูลสนับสนุนจำนวนมาก เพื่อใช้ในการวิเคราะห์และจัดทำข้อเสนอแนะด้านพลังงานแก่ผู้บริหาร ด้วยเหตุนี้ สนพ.จึงได้จัดทำระบบฐานข้อมูลสถิติพลังงาน เพื่อติดตามสถานการณ์พลังงานของประเทศและของโลก

ระบบฐานข้อมูลสถิติพลังงานของ สนพ. เป็นระบบฐานข้อมูลที่ทันสมัยและครอบคลุมเรื่องพลังงานทุกด้าน เช่น การผลิต การใช้ การนำเข้า การส่งออก ราคาและมูลค่าพลังงาน รวมทั้งข้อมูลปริมาณการปลดปล่อยก๊าซคาร์บอนไดออกไซด์ (CO₂) จากการใช้พลังงาน ซึ่งข้อมูลดังกล่าวเหล่านี้รวบรวมไว้อย่างต่อเนื่อง ไม่น้อยกว่า 30 ปี และนำมาใช้เป็นสารสนเทศทางการบริหารพลังงานของประเทศไทย โดยเฉพาะเพื่อสนับสนุนการตัดสินใจของผู้บริหารในการติดตามความเคลื่อนไหวสถานการณ์ทางด้านพลังงาน ตลอดจนใช้ในการวิเคราะห์แนวโน้มเพื่อประเมินผลกระทบที่อาจเกิดขึ้นจากการใช้พลังงาน ซึ่งผลการวิเคราะห์จะนำไปสู่การจัดทำข้อเสนอแนะนโยบายและแผนการบริหาร แผนการพัฒนาพลังงานของประเทศ โดยข้อมูลสถิติพลังงานดังกล่าวมีการปรับปรุงและเผยแพร่เป็นประจำทุกเดือนผ่านทาง Internet ซึ่งได้ดำเนินการมาต่อเนื่องและเป็นที่ยอมรับของหน่วยงานต่าง ๆ ทั้งในประเทศและต่างประเทศ

สนพ.ได้เล็งเห็นถึงประโยชน์และความสำคัญของการเผยแพร่สถิติพลังงานดังกล่าว เนื่องจากเป็นข้อมูลที่มีความสำคัญยิ่งต่อการกำหนดนโยบายและแผนพลังงาน ตลอดจนการพัฒนาเศรษฐกิจและสังคมของประเทศ จึงเห็นควรให้มีการจัดทำหนังสือ “รายงานสถิติพลังงานของประเทศไทย” ขึ้น เพื่อเพิ่มช่องทางการบริการข้อมูลให้สามารถนำไปใช้ประโยชน์ได้อย่างแพร่หลาย โดยจะดำเนินการเผยแพร่ต่อสาธารณชนผ่านทางสื่อสิ่งพิมพ์และแผ่น CD ที่สามารถตอบสนองความต้องการของผู้ใช้ได้อย่างรวดเร็วและมีประสิทธิภาพ

Introduction

The Energy Policy and Planning Office (EPPO) is a pivotal agency under the Ministry of Energy, being tasked with the development of national energy policies and planning, including measures to manage and administer the energy sector, with due consideration of economic and social development, concurrently with environmental protection. In order to undertake the mentioned tasks, it is crucial to acquire substantial information and data for analysis and development of recommendation on energy issues to be presented to the management. EPPO, therefore, has developed an energy statistics database system with a view to following up both national and global energy situations.

The energy statistics database system of EPPO is considered to be up-to-date and covers all energy aspects, e.g. production, consumption, import, export, prices and value (in terms of money spent/received) of energy, including the information about carbon dioxide (CO₂) emissions from the use of energy. The information/data has been continuously compiled for no less than 30 years and has much contributed to energy management of the country, particularly in support of decision making of the management regarding the follow-up of energy situation movements and in analyzing energy trends to assess the impact which may occur from energy use. The analysis outcome will form the basis for the development of recommendations on the energy policy and management plan as well as the energy development plan of the country. Updates on the energy statistics data will be made on a monthly basis and publicized via the Internet, which has been long implemented and well accepted by concerned agencies/organizations, both domestic and overseas.

EPPO has well recognized the benefits and importance of energy statistics dissemination because the information/data is very significant for the national energy policy and planning determination and for the national economic and social development. As a result, it is deemed appropriate to publish this "Energy Statistics of Thailand" to be another channel to provide services on energy information so that further applications could be widely generated. The report will be publicized via printed matters and in the form of CD, which is expected to promptly and efficiently respond to the users' needs.

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*Note : M = Monthly
Y = Yearly





Energy Statistics
of Thailand 2010

Chapter 1

ENERGY SITUATION IN 2009

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บทที่ 1

สถานการณ์พลังงานปี 2009



บทที่ 1

สถานการณ์พลังงานปี 2009

ภาพรวมพลังงาน ปี 2009 สศช. รายงานอัตราการเจริญเติบโตทางเศรษฐกิจไทยในปี 2009 หดตัวร้อยละ 2.3 เนื่องจากได้รับผลกระทบจากวิกฤตเศรษฐกิจโลกที่รุนแรงเมื่อปลายปี 2008 ต่อเนื่องมาจนถึงปีนี้ ทำให้การส่งออกและการท่องเที่ยวไทยหดตัวลงมาก แต่ในช่วงครึ่งปีหลังเศรษฐกิจไทยมีการปรับตัวดีขึ้น ส่งผลให้การใช้พลังงานเชิงพาณิชย์ขั้นต้นเพิ่มขึ้นร้อยละ 2.8 เมื่อเทียบกับปีที่แล้ว หรืออยู่ที่ระดับ 1,663 เทียบเท่าพันบาร์เรลน้ำมันดิบต่อวัน โดยเป็นการใช้ก๊าซธรรมชาติเพิ่มขึ้นร้อยละ 5.2 เนื่องจากส่วนหนึ่งนำไปใช้ในอุตสาหกรรมและในรถยนต์ NGV เพิ่มขึ้น การใช้น้ำมันเพิ่มขึ้นร้อยละ 1.4 เนื่องจากราคาน้ำมันที่ลดต่ำลงกว่าปีที่ผ่านมาส่งผลให้การใช้น้ำมันเบนซินและดีเซลเพิ่มขึ้น และการใช้ถ่านหินเพิ่มขึ้นร้อยละ 2.9 ในขณะที่ลิกไนต์ลดลงร้อยละ 3.4 เนื่องจากมีการนำไปใช้เป็นเชื้อเพลิงในการผลิตไฟฟ้าของ กฟผ. ลดลง ไฟฟ้าพลังน้ำและไฟฟ้านำเข้ามีการใช้ลดลงร้อยละ 1.1 เนื่องจากปริมาณน้ำในเขื่อนน้อย

การใช้พลังงานเชิงพาณิชย์ขั้นต้น

หน่วย : เทียบเท่าพันบาร์เรลน้ำมันดิบ/วัน

	2005	2006	2007	2008	2009
การใช้	1,520	1,545	1,604	1,618	1,663
น้ำมัน	689	674	667	634	643
ก๊าซธรรมชาติ	566	579	615	648	682
ถ่านหิน	107	140	180	199	205
ลิกไนต์	125	108	99	101	98
พลังน้ำ/ไฟฟ้านำเข้า	33	44	43	36	35
อัตราการเปลี่ยนแปลง (%)					
การใช้	4.8	1.6	3.8	0.9	2.8
น้ำมัน	0.4	-2.3	-1.0	-5.0	1.4
ก๊าซธรรมชาติ	9.2	2.3	6.2	5.4	5.2
ถ่านหิน	13.8	30.9	28.5	10.6	2.9
ลิกไนต์	4.2	-14.0	-7.8	2.4	-3.4
พลังน้ำ/ไฟฟ้านำเข้า	2.4	35.2	-2.5	-17.4	-1.1

น้ำมันดิบ การนำเข้าอยู่ที่ระดับ 803 พันบาร์เรลต่อวัน ลดลงร้อยละ 1.0 คิดเป็นมูลค่า 623 พันล้านบาท ซึ่งลดลงร้อยละ 37.9 โดยราคาน้ำมันดิบลดลงร้อยละ 39.0 จากราคาเฉลี่ยน้ำมันดิบนำเข้า 101.44 เหรียญสหรัฐต่อบาร์เรลในปี 2008 มาอยู่ที่ระดับ 61.90 เหรียญสหรัฐต่อบาร์เรลในปี 2009

Chapter 1

Energy Situation in 2009



2009 Energy Situation Overview. According to the report of the Office of the National Economic and Social Development Board (NESDB), Thailand's economic condition in 2009 greatly fell off, with a minus GDP growth rate at -2.3%, due to the impact of severe global economic crisis emerging at the end of 2008 which continued into 2009, causing considerable shrinkage in the export and tourism segments. However, in the second half of the year, Thailand's economic situation began to recover, resulting in an increase in commercial primary energy consumption by 2.8% compared with the previous year, accounting for a demand of 1,663 thousand barrels of crude oil equivalent per day. Natural gas consumption increased by 5.2% stemming from greater demand in the industrial sector and automobiles using NGV (natural gas for vehicles). Oil consumption increased by 1.4% as oil prices became cheaper than those in 2008, resulting in greater consumption of gasoline and diesel. Coal consumption rose by 2.9% while lignite consumption dropped by 3.4% due to decreasing use of lignite as fuel for power generation by the Electricity Generating Authority of Thailand (EGAT). Hydropower/imported electricity consumption decreased by 1.1% because of low water levels in dam reservoirs.

Primary Commercial Energy Consumption

Unit : KBD (Crude Oil Equivalent)

	2005	2006	2007	2008	2009
Consumption	1,520	1,545	1,604	1,618	1,663
Petroleum	689	674	667	634	643
Natural Gas	566	579	615	648	682
Coal	107	140	180	199	205
Lignite	125	108	99	101	98
Hydro/Imported Electricity	33	44	43	36	35
Growth Rate (%)					
Consumption	4.8	1.6	3.8	0.9	2.8
Petroleum	0.4	-2.3	-1.0	-5.0	1.4
Natural Gas	9.2	2.3	6.2	5.4	5.2
Coal	13.8	30.9	28.5	10.6	2.9
Lignite	4.2	-14.0	-7.8	2.4	-3.4
Hydro/Imported Electricity	2.4	35.2	-2.5	-17.4	-1.1

Crude Oil. The volume of crude oil import stood at 803 thousand barrels per day (KBD), a decrease of 1.0%. The import was worth 623 billion Baht, a decrease in value by 37.9%, because imported crude oil prices sharply dropped by 39.0%, from an average of 101.44 US\$/barrel in 2008 to 61.90 US\$/barrel in 2009.

การนำเข้าน้ำมันดิบลดลง 1.0%

	2007	2008	2009	อัตราการเปลี่ยนแปลง (%)		
				2007	2008	2009
ปริมาณ (พันบาร์เรล/วัน)	804	812	803	-3.0	0.9	-1.0
มูลค่า (พันล้านบาท)	716	1,003	623	-5.0	40.1	-37.9
ราคา (ดอลลาร์/บาร์เรล)	70.54	101.44	61.90	7.7	43.8	-39.0

น้ำมันสำเร็จรูป การใช้น้ำมันสำเร็จรูปเพิ่มขึ้นร้อยละ 1.3 เนื่องจากการใช้ดีเซลและเบนซินเพิ่มขึ้น อันเป็นผลจากราคาขายปลีกเฉลี่ยในปีนี้ต่ำกว่าปี 2008 มากทำให้ประชาชนใช้น้ำมันเพิ่มมากขึ้น ส่วนการใช้ LPG เพิ่มขึ้นเนื่องจากภาคครัวเรือนใช้เพิ่มขึ้น ในขณะที่การใช้น้ำมันเครื่องบินลดลงร้อยละ 4.4 เนื่องจากภาวะการท้องเที่ยวที่ซบเซาอันเป็นผลจากปัญหาความไม่สงบในประเทศและเศรษฐกิจโลกที่ชะลอตัว ตลอดจนการระบาดของโรคไข้หวัดใหญ่สายพันธุ์ใหม่ 2009 น้ำมันเตาลดลงร้อยละ 16.9 เนื่องจากการใช้น้ำมันเตาในภาคอุตสาหกรรมและใช้เป็นเชื้อเพลิงในการผลิตไฟฟ้าของ กฟผ.ลดลงมาก

การใช้น้ำมันสำเร็จรูป

หน่วย : ล้านลิตร

ชนิด	2006	2007	2008	2009	อัตราการเปลี่ยนแปลง (%)			
					2006	2007	2008	2009
เบนซิน	7,215.1	7,336.8	7,120.6	7,524.4	-0.4	1.6	-2.9	5.6
ธรรมดา 91	4,558.9	4,711.6	4,311.4	4,291.6	4.5	3.3	-8.4	-0.4
พิเศษ	2,656.3	2,625.2	2,809.2	3,232.8	-7.9	-1.1	7.0	15.0
- แก๊สโซฮอล์	1,184.8	1,518.5	2,468.2	3,055.7	83.4	28.1	62.5	23.8
- 95	1,471.5	1,106.7	341.0	177.1	-34.3	-24.7	-69.1	-48.0
ก๊าด	19.7	18.2	15.7	17.6	-7.4	-7.5	-13.7	12.5
ดีเซล	18,371.0	18,709.7	17,643.0	18,465.3	-6.2	1.8	-5.7	4.6
เครื่องบิน	4,518.5	4,931.8	4,636.5	4,431.5	5.2	9.1	-5.9	-4.4
น้ำมันเตา	5,851.3	4,221.5	3,287.3	2,730.9	-5.6	-27.8	-22.1	-16.9
LPG*	5,074.4	5,812.4	6,828.4	6,894.3	16.2	14.5	17.4	0.9
รวม	41,050.0	41,030.4	39,531.4	40,063.9	-1.6	-0.1	-3.6	1.3

*ไม่รวมการใช้ LPG ที่เป็น Feed stocks ในปิโตรเคมี

Crude Oil Import Decreased by 1.0%

	2007	2008	2009	Growth Rate (%)		
				2007	2008	2009
Quantity (KBD/day)	804	812	803	-3.0	0.9	-1.0
Worth (Billion Baht)	716	1,003	623	-5.0	40.1	-37.9
Price (US\$/BBL)	70.54	101.44	61.90	7.7	43.8	-39.0

Petroleum Products. The demand of petroleum products increased by 1.3% due to greater consumption of diesel and gasoline, stemming from much lower retail prices, on average, in 2009 when compared with the prices in 2008, thus inducing greater use of oil by the general public. LPG demand increased due to greater consumption in the household sector; whereas jet petroleum demand decreased by 4.4% due to the shrinkage of the tourism segment caused by the domestic political unrest as well as the global economic recession and the outbreak of the 2009 flu pandemic (H1N1). Fuel oil consumption decreased by 16.9% as the demand in the industrial sector greatly fell off and the use of fuel oil for power generation by EGAT also dropped substantially.

Petroleum Product Consumption

Unit : Million Litres

Product	2006	2007	2008	2009	Growth Rate (%)			
					2006	2007	2008	2009
Gasoline	7,215.1	7,336.8	7,120.6	7,524.4	-0.4	1.6	-2.9	5.6
Regular 91	4,558.9	4,711.6	4,311.4	4,291.6	4.5	3.3	-8.4	-0.4
Premium	2,656.3	2,625.2	2,809.2	3,232.8	-7.9	-1.1	7.0	15.0
- Gasohol	1,184.8	1,518.5	2,468.2	3,055.7	83.4	28.1	62.5	23.8
- 95	1,471.5	1,106.7	341.0	177.1	-34.3	-24.7	-69.1	-48.0
Kerosene	19.7	18.2	15.7	17.6	-7.4	-7.5	-13.7	12.5
Diesel	18,371.0	18,709.7	17,643.0	18,465.3	-6.2	1.8	-5.7	4.6
Jet	4,518.5	4,931.8	4,636.5	4,431.5	5.2	9.1	-5.9	-4.4
Fuel oil	5,851.3	4,221.5	3,287.3	2,730.9	-5.6	-27.8	-22.1	-16.9
LPG*	5,074.4	5,812.4	6,828.4	6,894.3	16.2	14.5	17.4	0.9
Total	41,050.0	41,030.4	39,531.4	40,063.9	-1.6	-0.1	-3.6	1.3

*Excluding LPG use as feed stocks in petrochemical industry

- **น้ำมันเบนซิน** การใช้น้ำมันเบนซินมีปริมาณค่อนข้างคงที่เฉลี่ยอยู่ที่ระดับ 20.6 ล้านลิตรต่อวัน หรือเพิ่มขึ้นร้อยละ 6.0 เนื่องจากราคาขายปลีกเฉลี่ยในปีนี้ต่ำกว่าปีที่แล้ว ปัจจุบันการใช้เบนซินธรรมดา มีสัดส่วนร้อยละ 57 แยกเป็นเบนซิน 91 ร้อยละ 38 และแก๊สโซฮอล์ 91 ร้อยละ 19 และเบนซินพิเศษ ร้อยละ 43 แยกเป็นเบนซิน 95 ร้อยละ 2 และแก๊สโซฮอล์ 95 ร้อยละ 41

- **แก๊สโซฮอล์** มีสัดส่วนการใช้มากที่สุด คิดเป็นร้อยละ 60 ของปริมาณการใช้เบนซินทั้งหมด โดยมีปริมาณการใช้เพิ่มจาก 9.2 ล้านลิตรต่อวันในปี 2008 เป็น 12.2 ล้านลิตรต่อวันในปีนี้ หรือเพิ่มขึ้น ร้อยละ 32.2 เป็นการใช้แก๊สโซฮอล์ 95 ที่ระดับ 8.1 ล้านลิตรต่อวัน เพิ่มขึ้นร้อยละ 25.5 ส่วนการใช้ แก๊สโซฮอล์ 91 เพิ่มขึ้นสูงมากเนื่องจากรัฐบาลได้มีนโยบายส่งเสริมการใช้แก๊สโซฮอล์ 91 ด้วยการสร้างความมั่นใจในกลุ่มผู้ใช้รถจักรยานยนต์

- **น้ำมันดีเซล** ปริมาณการใช้รวม 50.6 ล้านลิตรต่อวัน เพิ่มขึ้นร้อยละ 5.0 โดยในช่วงต้นปี 2009 ปริมาณการใช้เพิ่มขึ้นมากเนื่องจากราคาน้ำมันดีเซลต่ำกว่าที่ผ่านมา ต่อมาราคาเริ่มปรับตัวสูงขึ้น ทำให้การใช้ลดลง อย่างไรก็ตามในช่วงไตรมาสสุดท้ายของปี 2009 เศรษฐกิจไทยเริ่มมีแนวโน้มปรับตัวดีขึ้น ประกอบกับราคาน้ำมันดีเซลเฉลี่ยในปีนี้ต่ำกว่าปีที่ผ่านมา จึงทำให้ปริมาณการใช้ของทั้งปีเพิ่มขึ้น

- **ไบโอดีเซล (B5)** ปริมาณการจำหน่ายเพิ่มขึ้นจาก 10.3 ล้านลิตรต่อวันในปี 2008 เป็น 22.3 ล้านลิตรต่อวันในปีนี้ หรือเพิ่มขึ้นร้อยละ 116.4 เนื่องจากรัฐบาลได้มีนโยบายส่งเสริมการใช้พลังงานทดแทนอย่างจริงจัง ด้วยการลดอัตราเงินนำส่งเข้ากองทุนน้ำมันและกองทุนอนุรักษ์พลังงานของ B5 ต่ำกว่า น้ำมันดีเซล เป็นผลให้ราคาขายปลีกของ B5 ต่ำกว่าราคาน้ำมันดีเซล 1.00–3.00 บาทต่อลิตร จึงเป็นเหตุให้ การใช้น้ำมัน B5 เพิ่มสูงขึ้นอย่างต่อเนื่อง

- **LPG โพรเพน และบิวเทน** ปริมาณการใช้เพิ่มขึ้นร้อยละ 8.8 อยู่ที่ระดับ 5,208 พันตัน การใช้ ในภาคครัวเรือนและใช้เป็นวัตถุดิบในอุตสาหกรรมปิโตรเคมีเพิ่มขึ้น สาเหตุส่วนหนึ่งมาจากรัฐตรึงราคา LPG ให้อยู่ระดับต่ำ โดยปริมาณการใช้เป็นวัตถุดิบในปิโตรเคมีเพิ่มสูงขึ้นถึงร้อยละ 42.8 ในขณะที่การใช้ LPG ในรถยนต์ปีนี้ลดลงร้อยละ 14.1 เนื่องจากรัฐบาลมีนโยบายส่งเสริมการใช้ NGV ทดแทน และการใช้ เป็นเชื้อเพลิงในภาคอุตสาหกรรมลดลงร้อยละ 11.0 ตามภาวะเศรษฐกิจ

- **Gasoline.** The volume of gasoline consumption was rather constant, at an average of 20.6 million litres/day, or an increase of 6.0%, because the average retail price in 2009 was lower than that in 2008. Regular gasoline demand accounted for a share of 57%, comprising Gasoline 91 and Gasohol 91 at a share of 38% and 19% respectively, and premium gasoline demand accounted for the remaining 43%, comprising Gasoline 95 and Gasohol 95 at a share of 2% and 41% respectively.

- **Gasohol.** This product accounted for the largest share of total gasoline consumption, i.e. 60%. The demand increased from 9.2 million litres/day in 2008 to 12.2 million litres/day in 2009, or an increase of 32.2%. The use of Gasohol 95 was at a rate of 8.1 million litres/day, an increase of 25.5%, and the use of Gasohol 91 highly increased owing to the government's policy promoting the use of Gasohol 91 by creating confidence of consumers, particularly motorcyclists, in the product quality.

- **Diesel.** The total consumption reached 50.6 million litres/day, an increase of 5.0%. In early 2009, the demand highly increased because the price of diesel was lower than that in the previous year; later in the year, the price began to rise, causing the demand to decrease. However, in the last quarter of 2009, Thailand's economic condition was improving, coupled with the lower price of diesel, on average, compared with the previous year; as a result, the total consumption over the year increased.

- **Biodiesel (B5).** The distribution volume of B5 sharply increased from 10.3 million litres/day in 2008 to 22.3 million litres/day in 2009, or an increase of 116.4%. This resulted from serious promotion of the government on the use of alternative energy, by reducing the contribution rates to the Oil Fund and the Energy Conservation Promotion Fund imposed on B5 to be lower than those imposed on diesel, making the retail price of B5 lower than diesel price at a rate of 1.00 - 3.00 Baht/litre and hence a continuous rise of B5 consumption.

- **LPG, Propane and Butane.** The consumption rose by 8.8%, accounting for a volume of 5,208 thousand tons. The demand in the household sector and the use as feedstock in the petrochemical industry increased, partly due to the LPG price stabilization by the government. The use as petrochemical feedstock highly increased by 42.8%; while LPG demand in the transport sector in 2009 dipped by 14.1% resulting from the government's policy promoting NGV as alternative transport fuel. The use of LPG as fuel in the industrial sector also dropped by 11.0% pursuant to the economic condition.

อุปทานและอุปสงค์ของ LPG โพรเพน และบิวเทน

หน่วย : พันตัน

	2006	2007	2008	2009	อัตราการเปลี่ยนแปลง (%)		สัดส่วน (%)
					2008	2009	2009
อุปทาน	4,159	4,469	4,803	5,217	7.5	8.6	100
การผลิต	4,159	4,469	4,351	4,463	-2.6	2.6	86
นำเข้า			452	753		66.6	14
อุปสงค์ (การใช้+ส่งออก)	4,094	4,393	4,810	5,223	9.5	8.6	
การใช้	3,518	4,116	4,788	5,208	16.3	8.8	100
- คริวเรือน	1,721	1,884	2,124	2,231	12.7	5.0	43
- อุตสาหกรรม	511	602	658	586	9.3	-11.0	11
- รถยนต์	459	572	776	666	35.6	-14.1	13
- อุตสาหกรรมปิโตรเคมี	708	807	903	1,265	11.9	42.8	24
- ใช้เอง	119	251	328	435	31.1	32.5	8
ส่งออก	576	278	21	15	-92.3	-29.0	
สมดุล (อุปทาน-อุปสงค์)	65	76	-6	-6			

ก๊าซธรรมชาติ ปริมาณการใช้อยู่ที่ระดับ 3,564 ล้านลูกบาศก์ฟุตต่อวัน เพิ่มขึ้นร้อยละ 3.1 โดยก๊าซธรรมชาติถูกนำไปใช้ในภาคการผลิตต่าง ๆ ได้แก่ เป็นเชื้อเพลิงในการผลิตไฟฟ้าร้อยละ 68 อุตสาหกรรมร้อยละ 11 รถยนต์ร้อยละ 4 และใช้เป็นวัตถุดิบในโรงแยกก๊าซร้อยละ 17

การใช้ก๊าซธรรมชาติรายสาขา

หน่วย : ล้านลูกบาศก์ฟุต/วัน

	2005	2006	2007	2008	2009	2009 สัดส่วน (%)	อัตราการเปลี่ยนแปลง (%)	
							2008	2009
ผลิตไฟฟ้า	2,242	2,257	2,346	2,423	2,435	68	3.6	0.2
โรงแยกก๊าซ	491	527	572	583	599	17	2.2	2.4
อุตสาหกรรม	258	291	347	361	387	11	4.2	6.9
NGV	6	11	24	77	143	4	229.4	84.1
รวม	2,997	3,086	3,288	3,444	3,564	100	5.0	3.1

หมายเหตุ : ค่าความร้อน 1 ลูกบาศก์ฟุตเท่ากับ 1,000 บีทียู

ลิกไนต์/ถ่านหิน การใช้อยู่ที่ระดับ 34 ล้านตัน เพิ่มขึ้นจากปีก่อนร้อยละ 0.5 (คิดจากค่าความร้อน) ประกอบด้วยลิกไนต์ 18 ล้านตัน และถ่านหินนำเข้า 16 ล้านตัน เป็นการใช้ลิกไนต์ในภาคการผลิตไฟฟ้าของ กฟผ. จำนวน 16 ล้านตัน ที่เหลือจำนวน 2 ล้านตัน ถูกนำไปใช้ในภาคอุตสาหกรรมต่าง ๆ ได้แก่ การผลิตปูนซีเมนต์ กระดาษ อุตสาหกรรมอาหาร และอื่น ๆ

Supply and Demand of LPG, Propane and Butane

Unit : Thousand Tons

	2006	2007	2008	2009	Growth Rate (%)		Share (%)
					2008	2009	2009
					Supply	4,159	4,469
Production	4,159	4,469	4,351	4,463	-2.6	2.6	86
Import			452	753		66.6	14
Demand (Consumption+Export)	4,094	4,393	4,810	5,223	9.5	8.6	
Consumption	3,518	4,116	4,788	5,208	16.3	8.8	100
- Household	1,721	1,884	2,124	2,231	12.7	5.0	43
- Industry	511	602	658	586	9.3	-11.0	11
- Automobile	459	572	776	666	35.6	-14.1	13
- Petrochemical Industry	708	807	903	1,265	11.9	42.8	24
- Own use	119	251	328	435	31.1	32.5	8
Export	576	278	21	15	-92.3	-29.0	
Balance (Supply-Demand)	65	76	-6	-6			

Natural Gas. The consumption was at a rate of 3,564 million cubic feet per day (MMscfd), an increase of 3.1%. Natural gas was used in various manufacturing sectors, i.e. as fuel in electricity generation, holding a share of 68%; industries, 11%; transport (NGV), 4%; and as feedstock in gas separation plants, 17%.

Natural Gas Consumption by Sector

Unit : MMSCFD

	2005	2006	2007	2008	2009	2009 Share (%)	Growth Rate (%)	
							2008	2009
							Electricity Generation	2,242
GSP	491	527	572	583	599	17	2.2	2.4
Industry	258	291	347	361	387	11	4.2	6.9
NGV	6	11	24	77	143	4	229.4	84.1
Total	2,997	3,086	3,288	3,444	3,564	100	5.0	3.1

Remarks : Heating Value: 1 cubic foot = 1,000 BTU

Lignite/Coal. The demand totaled 34 million tons, increasing by 0.5% from the previous year (based on the heating value), divided into lignite and imported coal at 18 and 16 million tons respectively. The use of lignite for power generation by EGAT totaled 16 million tons, and the remaining two million tons were used in various industries, i.e. cement manufacturing, paper, food industry, and others.

กำลังการผลิตติดตั้งไฟฟ้า อยู่ที่ 29,191 เมกะวัตต์ ความต้องการไฟฟ้าสูงสุดเกิดขึ้น ณ วันศุกร์ที่ 24 เมษายน 2009 เวลา 14.30 น. อยู่ที่ระดับ 22,596 เมกะวัตต์ สูงกว่าความต้องการไฟฟ้าสูงสุดของปี 2008 ซึ่งอยู่ที่ระดับ 22,568 เมกะวัตต์ จำนวน 28 เมกะวัตต์ หรือเพิ่มขึ้นร้อยละ 0.1

● **การผลิตไฟฟ้า** ปริมาณการผลิตและการรับซื้อของ กฟผ. ในปี 2009 มีจำนวน 148,364 กิกะวัตต์ชั่วโมง เพิ่มขึ้นจากปีก่อนร้อยละ 0.1 โดยมีสัดส่วนการผลิตไฟฟ้าจากเชื้อเพลิงชนิดต่าง ๆ ดังนี้ จากก๊าซธรรมชาติร้อยละ 71 จากลิกไนต์/ถ่านหินร้อยละ 21 จากพลังน้ำร้อยละ 5 จากการนำเข้าไฟฟ้าและอื่น ๆ ร้อยละ 3

● **การใช้ไฟฟ้า** อยู่ที่ระดับ 134,793 กิกะวัตต์ชั่วโมง เพิ่มขึ้นร้อยละ 0.3 การใช้ไฟฟ้าชะลอตัวตั้งแต่ปลายปี 2008 และลดลงจนถึงกลางปี 2009 หลังจากนั้นจึงได้ปรับตัวสูงขึ้นตั้งแต่เดือนตุลาคม เป็นต้นมา ส่งผลให้สาขาอุตสาหกรรมใช้ไฟฟ้าน้อยลงจากปี 2008 เพียงร้อยละ 1.1 สาขาธุรกิจลดลงร้อยละ 1.5 และสาขาอื่น ๆ ลดลงร้อยละ 0.6 ในขณะที่บ้านอยู่อาศัยเพิ่มขึ้นร้อยละ 5.5 และสาขาเกษตรกรรมเพิ่มขึ้นร้อยละ 9.9

ปริมาณการใช้ไฟฟ้ารายสาขา

หน่วย : กิกะวัตต์ชั่วโมง

สาขา	2006	2007	2008	2009	อัตราการเปลี่ยนแปลง (%)	
					2008	2009
บ้านและที่อยู่อาศัย	26,915	27,960	28,692	30,258	2.6	5.5
ธุรกิจ	31,702	32,839	33,116	32,634	0.9	-1.5
อุตสาหกรรม	56,995	59,436	60,057	59,402	1.0	-1.1
เกษตรกรรม	240	268	288	316	7.4	9.9
อื่น ๆ	11,385	11,989	12,259	12,183	2.3	-0.6
รวม	127,237	132,492	134,412	134,793	1.5	0.3

Installed Electricity Capacity. The total installed capacity stood at 29,191 megawatts (MW). The peak demand occurred on Friday, 24 April 2009, at 14.30 hrs, reaching 22,596 MW – an increase of 28 MW or 0.1% from the peak demand in 2008 which stood at 22,568 MW.

- **Electricity Generation.** The generation and purchase of electricity by EGAT in 2009 totaled 148,364 Gigawatt-hours (GWh), increasing by 0.1% from the previous year. The shares of fuel used for electricity generation were as follows: natural gas, 71%; lignite/coal, 21%; hydropower, 5%; and imported electricity & others, 3%.

- **Electricity Consumption.** The consumption in 2009 stood at 134,793 GWh, an increase of 0.3%. The demand began to slow down at the end of 2008 and continued decreasing until mid-2009; then it was on the rise again, starting from October onwards. Therefore, the electricity demand in the industrial sector dropped only by 1.1% from 2008. The demand in the commercial sector and other sectors dropped by 1.5% and 0.6% respectively, while the demand in the household/residential and agricultural sectors rose by 5.5% and 9.9% respectively.

Electricity Consumption by Sector

Unit : GWh

Sector	2006	2007	2008	2009	Growth Rate (%)	
					2008	2009
Household Residential	26,915	27,960	28,692	30,258	2.6	5.5
Commerce	31,702	32,839	33,116	32,634	0.9	-1.5
Industry	56,995	59,436	60,057	59,402	1.0	-1.1
Agriculture	240	268	288	316	7.4	9.9
Others	11,385	11,989	12,259	12,183	2.3	-0.6
Total	127,237	132,492	134,412	134,793	1.5	0.3

Table 1.1-1
Production, Consumption and Import (Net) of Primary Commercial Energy

Unit : BBL/Day (Crude Oil Equivalent)

	2004					2005					2006					2007					2008					2009				
	12 Month										Growth Rate (%)																			
	2004		2005		2006		2007		2008		2009		2005		2006		2007		2008		2009		2008		2009					
Production	676,286	737,579	765,110	793,721	850,175	793,721	850,175	894,765	850,175	894,765	9.1	3.7	3.7	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1	5.2				
Crude	85,516	113,890	128,950	134,563	143,935	134,563	143,935	154,041	143,935	154,041	33.2	13.2	4.4	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0			
Condensate	62,075	63,243	68,488	71,760	77,265	71,760	77,265	76,361	77,265	76,361	1.9	8.3	4.8	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	-1.2			
Natural Gas	387,695	411,849	422,782	451,905	499,246	451,905	499,246	537,370	451,905	537,370	6.2	2.7	6.9	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	7.6			
Lignite	114,898	123,422	109,599	100,152	98,959	100,152	98,959	96,072	100,152	96,072	7.4	-11.2	-8.6	-1.2	-1.2	-1.2	-1.2	-1.2	-1.2	-1.2	-1.2	-1.2	-1.2	-1.2	-1.2	-1.2	-2.9			
Hydro	26,102	25,175	35,291	35,341	30,770	35,341	30,770	30,921	35,341	30,921	-3.6	40.2	0.1	-12.9	-12.9	-12.9	-12.9	-12.9	-12.9	-12.9	-12.9	-12.9	-12.9	-12.9	-12.9	-12.9	0.5			
Import (Net)	988,292	979,920	978,121	997,646	941,598	997,646	941,598	904,426	997,646	904,426	-0.9	-0.2	2.0	-5.6	-5.6	-5.6	-5.6	-5.6	-5.6	-5.6	-5.6	-5.6	-5.6	-5.6	-5.6	-5.6	-4.0			
Crude	813,422	762,121	763,858	752,196	765,697	752,196	765,697	762,294	752,196	765,697	-6.3	0.2	-1.5	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	-0.4			
Condensate																														
Petroleum Products	-55,733	-51,047	-91,285	-105,481	-177,077	-105,481	-177,077	-211,601	-105,481	-177,077	-8.4	78.8	15.6	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9	19.5			
Coal	94,170	107,164	140,264	180,274	199,304	180,274	199,304	204,976	180,274	199,304	13.8	30.9	28.5	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	2.9			
Electricity	5,795	7,494	8,873	7,700	4,789	7,700	4,789	4,239	7,700	4,239	29.3	18.4	-13.2	-37.8	-37.8	-37.8	-37.8	-37.8	-37.8	-37.8	-37.8	-37.8	-37.8	-37.8	-37.8	-37.8	-11.5			
Natural Gas	130,638	154,188	156,411	162,957	148,885	162,957	148,885	144,518	162,957	144,518	18.0	1.4	4.2	-8.6	-8.6	-8.6	-8.6	-8.6	-8.6	-8.6	-8.6	-8.6	-8.6	-8.6	-8.6	-8.6	-2.9			
Stock Change	-12,553	-21,588	-17,339	-46,348	-47,603	-46,348	-47,603	-110,981	-46,348	-110,981																				
Consumption	1,450,894	1,520,122	1,544,741	1,603,870	1,617,994	1,603,870	1,617,994	1,662,586	1,603,870	1,662,586	4.8	1.6	3.8	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	2.8			
Petroleum Products	686,612	689,418	673,786	666,775	633,720	666,775	633,720	642,701	666,775	642,701	0.4	-2.3	-1.0	-5.0	-5.0	-5.0	-5.0	-5.0	-5.0	-5.0	-5.0	-5.0	-5.0	-5.0	-5.0	-5.0	1.4			
Natural Gas	518,173	565,854	579,007	614,667	647,953	614,667	647,953	681,717	614,667	681,717	9.2	2.3	6.2	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.2			
Coal	94,170	107,157	140,264	180,274	199,304	180,274	199,304	204,976	180,274	199,304	13.8	30.9	28.5	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	2.9			
Lignite	120,042	125,024	107,520	99,113	101,458	99,113	101,458	98,032	99,113	98,032	4.2	-14.0	-7.8	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	-3.4			
Hydro & Imported Elec.	31,897	32,669	44,164	43,041	35,559	43,041	35,559	35,160	43,041	35,559	2.4	35.2	-2.5	-17.4	-17.4	-17.4	-17.4	-17.4	-17.4	-17.4	-17.4	-17.4	-17.4	-17.4	-17.4	-17.4	-1.1			
Import/Consumption	68	64	63	62	58	62	58	54	62	54																				
Non-Energy Use	226,237	218,965	215,829	232,183	220,127	232,183	220,127	247,586	232,183	247,586	-3.2	-1.4	7.6	-5.2	-5.2	-5.2	-5.2	-5.2	-5.2	-5.2	-5.2	-5.2	-5.2	-5.2	-5.2	-5.2	12.5			

Table 1.1-1Y
Production, Consumption and Import (Net) of Primary Commercial Energy

Unit : BBL/Day (Crude Oil Equivalent)

	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997
Production	151,549	176,356	198,155	221,339	250,465	290,923	309,599	331,936	368,138	392,644	450,073	523,408
Crude	20,039	16,733	19,181	21,351	23,968	24,503	26,317	24,940	26,553	23,763	26,419	27,463
Condensate	12,983	13,820	16,308	16,784	17,538	19,799	24,146	26,192	27,863	27,271	32,436	40,774
Natural Gas	62,886	87,956	103,910	104,075	113,361	140,605	149,430	168,747	186,479	197,527	227,592	281,002
Lignite	31,085	39,841	42,296	54,660	73,846	86,017	91,295	96,021	107,695	114,816	131,686	142,732
Hydro	24,556	18,006	16,460	24,469	21,752	19,999	18,411	16,036	19,548	29,267	31,940	31,437
Import (Net)	182,828	224,765	234,734	301,538	354,756	371,980	419,731	492,017	539,703	639,599	737,754	709,378
Crude	145,335	161,404	154,906	204,186	210,001	220,739	277,501	323,859	372,885	452,114	633,170	728,757
Condensate	-9,943	-8,931	-13,511	-14,459	-15,157	-17,039	-14,532	-10,227	-16,662	-12,871	-21,935	-21,452
Petroleum Products	43,515	67,687	88,089	104,985	154,493	161,350	149,664	165,532	162,930	169,762	76,386	-40,379
Coal	2,773	3,896	4,504	5,691	4,264	5,871	6,247	11,704	19,001	29,356	48,717	41,133
Electricity	1,148	709	746	1,135	1,155	1,059	851	1,149	1,549	1,238	1,416	1,319
Natural Gas												
Stock Change	-7,329	8,511	-8,096	8,755	439	-7,222	-2,954	2,337	-7,808	7,743	31,297	-36,720
Consumption	337,889	389,099	437,456	510,109	600,472	664,612	718,553	804,947	899,880	1,007,874	1,120,759	1,175,656
Petroleum Products	218,092	237,400	270,068	323,925	386,018	410,794	451,899	509,873	566,110	635,902	685,204	681,331
Natural Gas	62,886	87,956	103,910	104,075	113,361	140,605	149,430	168,747	186,479	197,527	227,592	281,003
Coal	2,773	3,896	4,504	5,691	4,265	5,872	6,248	11,704	19,001	29,356	48,717	41,133
Lignite	28,434	41,132	41,768	50,814	73,921	86,283	91,714	97,438	107,193	114,584	125,890	139,433
Hydro & Imported Elec.	25,704	18,715	17,206	25,604	22,907	21,058	19,262	17,185	21,097	30,505	33,356	32,756
Import/Consumption	54	58	54	59	59	56	58	61	60	63	66	60
Non-Energy Use	3,817	3,511	3,529	4,013	4,310	5,513	13,731	16,669	15,769	16,626	35,771	93,850

Table 1.1-1Y (Cont.)
Production, Consumption and Import (Net) of Primary Commercial Energy

Unit : BBL/Day (Crude Oil Equivalent)

	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
Production	524,089	547,787	588,596	594,367	631,698	666,413	676,286	737,579	765,110	793,721	850,175	894,765
Crude	29,420	34,006	57,937	61,914	75,567	96,322	85,516	113,890	128,950	134,563	143,935	154,041
Condensate	42,177	45,171	47,528	47,188	48,897	57,032	62,075	63,243	68,488	71,760	77,265	76,361
Natural Gas	305,034	334,169	350,069	341,406	356,897	373,241	387,695	411,849	422,782	451,905	499,246	537,370
Lignite	124,868	119,305	106,981	116,451	117,635	107,822	114,898	123,422	109,599	100,152	98,959	96,072
Hydro	22,590	15,136	26,081	27,408	32,702	31,996	26,102	25,175	35,291	35,341	30,770	30,921
Import (Net)	621,827	657,303	684,592	750,732	797,089	868,283	988,292	979,920	978,121	997,646	941,598	904,426
Crude	679,728	698,895	643,063	674,211	682,197	709,070	813,422	762,121	763,858	752,196	765,697	762,294
Condensate	-16,405	-11,749	-4,423	-3,482	-4,560							
Petroleum Products	-65,105	-75,020	-40,892	-76,091	-66,411	-57,345	-55,733	-51,047	-91,285	-105,481	-177,077	-211,601
Coal	20,424	40,997	52,177	61,850	70,025	88,931	94,170	107,164	140,264	180,274	199,304	204,976
Electricity	2,796	3,910	5,088	4,973	4,856	4,278	5,795	7,494	8,873	7,700	4,789	4,239
Natural Gas	389	270	29,579	89,271	110,982	123,349	130,638	154,188	156,411	162,957	148,885	144,518
Stock Change	-30,508	-41,584	-10,736	8,762	-4,167	-32,091	-12,553	-21,568	-17,339	-44,686	-46,348	-110,981
Consumption	1,086,464	1,118,679	1,147,162	1,199,134	1,282,157	1,348,049	1,450,894	1,520,122	1,544,741	1,603,870	1,617,994	1,662,586
Petroleum Products	610,785	611,174	578,832	560,322	589,160	623,627	686,612	689,418	673,786	666,775	633,720	642,701
Natural Gas	305,423	334,439	379,610	430,562	467,743	496,438	518,173	565,854	579,007	614,667	647,953	681,717
Coal	20,424	40,997	52,177	61,850	70,025	88,931	94,170	107,157	140,264	180,274	199,304	204,976
Lignite	124,446	113,023	105,374	114,019	117,671	102,779	120,042	125,024	107,520	99,113	101,458	98,032
Hydro & Imported Elec.	25,386	19,046	31,169	32,381	37,558	36,274	31,897	32,669	44,164	43,041	35,559	35,160
Import/Consumption	57	59	60	63	62	64	68	64	63	62	58	54
Non-Energy Use	89,960	127,995	136,762	137,203	150,797	218,738	226,237	218,965	215,829	232,183	220,127	247,586

Table 1.1-2Y
Primary Commercial Energy Production
(Physical Unit)

Year	Hydro (GWh)	Lignite(Tons)			NG (MMSCF)	Condensate (1000 BBL)	Crude Oil (1000 BBL)					Total	
		EGAT		Others			Total	Benjamas	Sirikit	Tantawan	Fang		Others
		Mae-Moh	Krabi										
1986	5,532	4,551,921	212,000	4,763,921	127,735	5,207	7,314					7,314	
1987	4,056	5,564,537	191,000	5,755,537	178,658	5,542	6,108					6,108	
1988	3,718	5,717,250	237,396	5,954,646	211,641	6,558	6,549				472	7,020	
1989	5,512	6,541,191	318,585	6,859,776	211,399	6,731	7,372			421		7,793	
1990	4,900	9,652,991	156,262	9,809,254	230,261	7,034	8,307			441		8,748	
1991	4,505	11,513,775	242,699	11,756,475	285,599	7,940	8,308			450	186	8,944	
1992	4,159	11,844,352	253,950	12,098,302	304,356	9,710	8,601			489	542	9,632	
1993	3,613	11,221,088	211,800	11,432,888	342,762	10,504	8,054			469	580	9,103	
1994	4,404	11,906,553	225,065	12,131,618	378,779	11,174	8,119			531	1,042	9,692	
1995	6,593	13,191,880	144,232	13,336,112	401,221	10,937	6,435			514	1,724	8,674	
1996	7,215	16,381,301		16,381,301	463,555	13,044	6,844			472	2,353	9,669	
1997	7,082	17,692,415		17,692,415	570,777	16,352	6,450			1,962	1,129	10,024	
1998	5,089	14,419,327		14,419,327	619,591	16,914	7,540			2,268	376	10,738	
1999	3,410	12,021,265		12,021,265	678,770	18,115	8,535			1,846	363	12,412	
2000	5,891	13,621,615	30,000	13,651,615	713,015	19,113	8,914			2,728	321	21,205	
2001	6,174	15,314,436	133,000	15,447,436	693,469	18,924	7,742			2,897	240	22,598	
2002	7,367	14,994,739	187,000	15,181,739	724,936	19,609	7,516			2,062	241	27,582	
2003	7,208	15,591,841	146,000	15,737,841	758,134	22,872	6,982			1,895	309	35,158	
2004	5,896	16,561,572	95,868	16,657,440	789,651	24,963	6,240			1,648	291	31,299	
2005	5,671	16,534,142	36,522	16,570,664	836,555	25,363	6,252			2,427	292	41,570	
2006	7,950	15,763,798	56,000	15,819,798	858,763	27,466	6,853			3,028	354	47,067	
2007	7,961	16,117,809	27,112	16,144,921	917,917	28,778	7,486			2,812	354	49,115	
2008	6,951	16,420,847	23,248	16,444,095	1,016,856	31,071	7,665			2,381	431	52,680	
2009	6,966	15,631,766		15,631,766	1,091,516	30,623	7,783			2,262	454	56,225	

Table 1.1-3Y
Primary Commercial Energy Production

Unit : KTOE

Year	Hydro	Lignite(Tons)			NG	Condensate	Crude Oil (1000 BBL)					Grand Total								
		EGAT		Total			Benjamas	Sirikit	Tantawan	Fang	Others		Total							
		Mae-Moh	Krabi																	
1986	1,225	1,128	55	1,183	337	1,520	3,138	648	1,000									1,000	7,531	
1987	899	1,378	49	1,427	513	1,940	4,390	690	835										835	8,754
1988	824	1,416	61	1,477	584	2,061	5,200	816	895									64	960	9,861
1989	1,221	1,620	82	1,702	937	2,639	5,194	838	1,008									58	1,066	10,958
1990	1,086	2,391	40	2,431	1,146	3,577	5,658	875	1,136									60	1,196	12,392
1991	998	2,852	63	2,915	1,260	4,175	7,017	988	1,136									62	25	14,401
1992	921	2,934	65	2,999	1,434	4,433	7,478	1,208	1,176									67	74	15,357
1993	800	2,779	55	2,834	1,790	4,624	8,422	1,307	1,101									64	79	16,398
1994	976	2,949	58	3,007	2,164	5,171	9,307	1,391	1,110									73	142	18,170
1995	1,461	3,268	37	3,305	2,217	5,522	9,858	1,361	880									70	236	19,388
1996	1,598	4,058		4,058	2,314	6,372	11,390	1,623	936									65	322	22,305
1997	1,569	4,382		4,382	2,505	6,887	14,024	2,035	882									66	154	25,886
1998	1,127	3,572		3,572	2,431	6,003	15,223	2,105	1,031									51	76	25,926
1999	755	2,978		2,978	2,720	5,698	16,677	2,254	161									50	67	27,081
2000	1,305	3,374	8	3,382	1,802	5,184	17,519	2,378	1,219									44	88	29,285
2001	1,368	3,793	34	3,827	1,813	5,640	17,039	2,355	1,443									33	160	29,492
2002	1,632	3,714	48	3,762	1,927	5,689	17,812	2,440	1,753									33	675	31,344
2003	1,597	3,862	38	3,900	1,354	5,254	18,627	2,846	2,459									42	1,092	33,131
2004	1,306	4,102	25	4,127	1,483	5,610	19,402	3,106	1,971									40	1,190	33,704
2005	1,256	4,096	9	4,105	1,878	5,983	20,554	3,156	2,287									40	2,171	36,633
2006	1,761	3,905	14	3,919	1,417	5,336	21,100	3,418	2,496									48	2,541	38,050
2007	1,764	3,992	7	3,999	913	4,912	22,553	3,581	2,103									48	3,156	39,526
2008	1,540	4,067	6	4,073	803	4,876	24,984	3,867	2,250									59	3,521	42,470
2009	1,543	3,872		3,872	843	4,715	26,819	3,811	1,451									62	4,802	44,576

Table 1.1-4Y
Primary Commercial Energy Import (Net)
(Physical Unit)

Year	Coal (Tons)	Crude Oil (M. Litres)	Condensate (BBL)	Petroleum Products (M. Litres)				LPG	Total	Electricity (GWh)	NG. (MMSCF)	
				NAP.&OTHS	Gasoline	Kerosene	HSD					LSD
1986	221,699	8,434	-3,987,709			2,150	5	209	82	105	2,551	673
1987	311,495	9,367	-3,581,598		223	2,679	1	368	487	227	3,985	415
1988	361,076	9,014	-5,433,155		375	3,763		545	286	270	5,240	438
1989	455,031	11,849	-5,798,632		610	4,304		495	247	695	6,351	665
1990	340,897	12,187	-6,078,577	-5	643	5,576		524	1,777	519	9,035	676
1991	469,422	12,810	-6,833,180	-94	786	5,144		580	2,665	191	9,272	620
1992	500,854	16,148	-5,843,959	-551	953	4,271		679	3,175	-56	8,472	500
1993	935,759	18,794	-4,101,385	-566	635	5,328		648	3,331	-76	9,300	673
1994	1,519,212	21,639	-6,682,085	-176	594	4,715		515	3,499	66	9,213	907
1995	2,347,159	26,237	-5,161,711	-368	379	5,729		178	3,701	-164	9,455	725
1996	3,905,824	36,844	-8,820,929	-401	-885	4,063		-123	1,727	-339	4,002	832
1997	3,288,765	42,291	-8,602,987	-187	-1,881	52		-254	231	-870	-2,885	773
1998	1,632,980	39,446	-6,578,884	-510	-1,691	-1,487		-235	462	-870	-4,358	1,637
1999	3,277,890	40,558	-4,711,795	-727	-1,657	-891		-817	598	-1,346	-5,142	2,290
2000	4,183,196	37,420	-1,778,593	2,076	-1,073	-1,031		-813	-147	-1,240	-2,620	2,988
2001	4,945,205	39,125	-1,396,547	1,823	-1,336	-1,321	-3	-484	-1,504	-1,403	-4,624	181,330
2002	5,598,838	39,589	-1,828,900	1,784	-1,006	-1,625		-870	-767	-1,270	-4,072	2,844
2003	7,110,436	41,148	41	1,523	-969	-1,543		-515	-569	-1,426	-3,609	2,506
2004	7,549,953	47,333	-110	1,566	-1,167	-1,668		-317	-325	-1,643	-3,613	3,403
2005	8,568,291	44,227		1,325	-2,022	-1,090		-597	539	-1,755	-3,603	4,389
2006	11,214,797	44,328	124	1,202	-1,922	-2,576		-983	-314	-1,067	-5,694	317,705
2007	14,413,796	43,651	51	616	-1,417	-2,498		-406	-1,942	-514	-6,198	4,510
2008	15,979,001	44,556		-291	-1,478	-3,717		-1,299	-3,370	-28	-10,291	2,812
2009	16,388,840	44,237		-1,141	-1,337	-4,411		-1,599	-3,795	-28	-12,330	2,483

Table1.1-5Y
Primary Commercial Energy Import (Net)

Unit : KTOE

Year	Coal Import	Crude Oil	Condensate	Petroleum Products (M. Litres)							LPG	Total	Electricity	NG.	Grand Total
				NAP.&OTHS	Gasoline	Kerosene	HSD	LSD	JP.	Fuel Oil					
1986	138	7,253	-496				1,854	4	170	77	66	2,171	57		9,123
1987	194	8,055	-446		166		2,309	1	301	458	143	3,378	35		11,216
1988	225	7,752	-676		280		3,244		446	269	170	4,409	37		11,747
1989	284	10,190	-722		454		3,710		405	233	438	5,240	57		15,049
1990	213	10,481	-756	-4	479		4,806		429	1,673	327	7,710	58		17,706
1991	293	11,016	-850	-70	585		4,434		474	2,508	120	8,051	53		18,563
1992	313	13,887	-727	-411	710		3,682		555	2,989	-35	7,490	43		21,006
1993	584	16,163	-510	-421	473		4,593		530	3,135	-48	8,262	57		24,556
1994	948	18,610	-832	-131	442		4,064		421	3,293	41	8,130	77		26,933
1995	1,465	22,564	-642	-275	282		4,938		146	3,484	-103	8,472	62		31,921
1996	2,438	31,686	-1,098	-299	-659	-32	3,502		-101	1,626	-214	3,823	71		36,920
1997	2,053	36,370	-1,071	-139	-1,401	19	45		-208	217	-548	-2,015	66		35,403
1998	1,019	33,923	-819	-380	-1,260	-21	-1,282		-192	435	-548	-3,248	140	19	31,034
1999	2,046	34,880	-586	-542	-1,234	-247	-768		-668	563	-848	-3,744	195	13	32,804
2000	2,611	32,181	-221	1,547	-800	-320	-889		-665	-138	-782	-2,047	255	1,480	34,259
2001	3,087	33,648	-174	1,358	-996	-323	-1,139	-3	-396	-1,415	-884	-3,798	248	4,455	37,466
2002	3,495	34,046	-228	1,330	-750	-260	-1,401		-711	-722	-800	-3,314	242	5,539	39,780
2003	4,438	35,388		1,135	-722	-89	-1,330		-421	-536	-899	-2,862	214	6,156	43,334
2004	4,713	40,707		1,167	-869	-48	-1,438		-259	-306	-1,035	-2,788	290	6,538	49,460
2005	5,348	38,035		987	-1,506	-3	-939		-488	508	-1,106	-2,547	374	7,695	48,905
2006	7,000	38,122		896	-1,432	-28	-2,220		-804	-295	-672	-4,555	443	7,806	48,816
2007	8,997	37,540		459	-1,056	-30	-2,154		-332	-1,828	-324	-5,265	384	8,133	49,789
2008	9,974	38,318		-217	-1,101	-89	-3,204		-1,062	-3,172	-17	-8,862	240	7,451	47,121
2009	10,230	38,044		-850	-996	-16	-3,802		-1,307	-3,572	-17	-10,560	212	7,212	45,138

Table 1.1-6Y
Primary Commercial Energy Consumption
(Physical Unit)

Year	Hydro / Import (GWh)	Lignite (Tons)							NG (MMSCF)	Petroleum (M.Litres)	Imported Coal (Tons)
		Mae-Moh		EGAT		Others					
		Total	Krabi	Total	Total	Total	Total	Total			
1986	6,204	4,084,231	221,552	4,305,784	734,351	5,040,135	127,735	13,109	221,699		
1987	4,472	6,061,425	183,694	6,245,120	1,056,771	7,301,891	178,658	14,299	311,495		
1988	4,156	5,681,773	213,978	5,895,751	1,316,064	7,211,815	211,641	16,302	361,076		
1989	6,177	6,545,092	219,112	6,764,205	1,799,380	8,563,585	211,399	19,409	455,031		
1990	5,576	9,619,613	255,710	9,875,323	2,600,686	12,476,010	230,261	22,957	340,987		
1991	5,125	11,504,708	219,982	11,724,690	2,934,444	14,659,135	285,599	24,379	469,513		
1992	4,659	12,129,274	241,265	12,370,539	3,193,113	15,563,652	304,356	26,856	500,946		
1993	4,285	11,239,942	249,845	11,489,787	4,222,965	15,712,752	342,762	30,202	935,759		
1994	5,311	11,908,173	247,711	12,155,884	4,897,708	17,053,592	378,779	33,523	1,519,212		
1995	7,318	13,374,488	193,005	13,567,493	4,939,136	18,506,629	401,221	37,660	2,347,159		
1996	8,047	16,405,340		16,405,340	4,688,467	21,093,807	463,555	40,793	3,905,842		
1997	7,855	18,010,806		18,010,806	5,235,658	23,246,464	570,777	40,600	3,288,780		
1998	6,726	15,388,095		15,388,095	5,029,499	20,417,594	620,381	36,521	1,632,970		
1999	5,700	13,893,584		13,893,584	4,610,512	18,504,096	679,318	36,585	3,277,940		
2000	8,879	14,120,569		14,120,569	3,722,528	17,843,097	773,183	35,027	4,183,209		
2001	9,087	15,744,116		15,744,116	3,753,746	19,497,862	874,564	34,150	4,945,198		
2002	10,211	15,035,329		15,035,329	4,503,816	19,539,145	950,087	35,908	5,598,850		
2003	9,713	15,406,532		15,406,532	2,753,088	18,159,620	1,008,373	37,949	7,110,439		
2004	9,300	16,536,694		16,536,694	4,006,700	20,543,394	1,055,404	41,650	7,549,950		
2005	10,060	16,571,091		16,571,091	4,475,747	21,046,838	1,149,371	41,725	8,567,691		
2006	13,147	15,815,374		15,815,374	3,036,745	18,852,119	1,176,088	41,051	11,214,800		
2007	12,471	15,811,050		15,811,050	2,159,379	17,970,429	1,248,521	41,031	14,413,800		
2008	9,763	16,407,465		16,407,465	2,124,087	18,531,552	1,319,738	39,532	15,978,998		
2009	9,448	15,818,265		15,818,265	2,042,528	17,860,793	1,384,714	40,065	16,388,840		

Table 1.1-7Y
Primary Commercial Energy Consumption

Unit : KTOE

Year	Hydro / Import Electricity	Lignite				NG	Petroleum	Imported Coal	Total
		EGAT		Others	Total				
		Mae-Moh	Krabi						
1986	1,282	1,012	57	1,069	350	3,138	10,884	138	16,861
1987	934	1,501	47	1,548	504	4,390	11,848	194	19,418
1988	861	1,407	55	1,462	628	5,200	13,515	225	21,891
1989	1,278	1,621	56	1,677	858	5,194	16,166	284	25,457
1990	1,144	2,383	66	2,449	1,241	5,658	19,265	213	29,970
1991	1,051	2,850	57	2,907	1,400	7,017	20,501	293	33,169
1992	964	3,004	62	3,066	1,523	7,478	22,615	313	35,959
1993	857	2,784	64	2,848	2,014	8,422	25,446	584	40,171
1994	1,053	2,950	64	3,014	2,336	9,307	28,253	948	44,911
1995	1,523	3,313	50	3,363	2,356	9,858	31,736	1,465	50,301
1996	1,669	4,064		4,064	2,236	11,390	34,290	2,438	56,087
1997	1,635	4,461		4,461	2,497	14,024	34,003	2,053	58,673
1998	1,267	3,812		3,812	2,399	15,243	30,482	1,019	54,222
1999	950	3,441		3,441	2,199	16,691	30,502	2,046	55,829
2000	1,560	3,498		3,498	1,776	18,997	28,967	2,611	57,409
2001	1,616	3,900		3,900	1,791	21,488	27,964	3,087	59,846
2002	1,874	3,724		3,724	2,148	23,344	29,403	3,495	63,988
2003	1,811	3,816		3,816	1,313	24,776	31,123	4,438	67,277
2004	1,596	4,096		4,096	1,911	25,931	34,361	4,713	72,608
2005	1,630	4,105		4,105	2,135	28,240	34,407	5,348	75,865
2006	2,204	3,917		3,917	1,449	28,896	33,627	7,000	77,093
2007	2,148	3,916		3,916	1,030	30,676	33,277	8,997	80,044
2008	1,780	4,064		4,064	1,013	32,426	31,714	9,974	80,971
2009	1,755	3,918		3,918	974	34,022	32,075	10,230	82,974

Table 1.2-1Y
Final Modern Energy Consumption
(Physical Unit)

Year	Solid Fossil Fuel (Thousand Tons)			Petroleum Products (M. Litres)							Electricity (GWh) *	Natural Gas in Industry (MMSCF)		
	Coal	Lignite	Total	LPG	Premium	Regular	JP.	Kerosene	Diesel	Fuel Oil		Total	Energy	NPC
1986	222	734	956	1,179	933	1,336	1,370	143	5,729	1,544	12,234	22,034	6,774	6,774
1987	312	1,057	1,368	1,259	1,113	1,484	1,490	129	6,424	1,821	13,719	24,894	2,603	2,603
1988	361	1,316	1,677	1,401	1,299	1,623	1,832	126	7,280	1,905	15,466	28,110	3,306	3,306
1989	455	1,799	2,254	1,571	1,526	1,796	2,112	119	8,632	2,439	18,196	32,772	3,512	930
1990	341	2,601	2,942	1,716	1,746	1,941	2,292	123	9,765	2,679	20,262	38,203	5,551	4,990
1991	470	2,804	3,273	1,845	1,885	2,005	2,468	111	9,889	2,950	21,153	44,239	7,685	6,063
1992	501	3,141	3,641	2,059	2,217	2,118	2,724	112	10,282	3,553	23,065	49,331	11,873	6,263
1993	936	4,223	5,159	2,224	2,748	2,164	2,899	107	11,746	3,705	25,592	55,231	14,543	6,101
1994	1,519	4,898	6,417	2,404	3,419	2,173	3,134	114	12,814	4,202	28,259	62,545	19,211	5,189
1995	2,335	4,939	7,275	2,629	4,087	2,206	3,295	101	14,863	4,464	31,645	70,609	26,093	6,610
1996	3,840	4,688	8,528	2,902	4,842	2,076	3,393	98	16,507	4,585	34,404	78,366	28,057	6,670
1997	3,197	5,236	8,432	2,985	5,382	1,973	3,543	86	16,807	4,429	35,205	83,331	34,886	7,742
1998	1,528	5,030	6,558	2,757	4,969	2,199	3,315	55	14,979	3,688	31,962	82,573	33,514	6,303
1999	2,205	4,611	6,816	2,983	4,685	2,340	3,298	52	15,160	4,169	32,688	83,850	44,002	8,180
2000	2,053	3,723	5,776	3,375	3,427	3,335	3,494	49	14,945	4,009	32,634	90,407	66,281	7,704
2001	2,603	3,754	6,357	3,728	3,001	3,856	3,717	57	15,151	3,917	33,427	96,037	68,782	10,940
2002	3,197	4,504	7,700	3,882	2,985	4,341	3,778	62	16,036	4,283	35,366	102,584	76,205	10,631
2003	4,885	2,753	7,638	3,975	3,085	4,550	3,761	36	17,528	4,386	37,321	109,672	82,732	10,979
2004	5,356	4,007	9,363	4,035	3,029	4,631	4,242	23	19,569	4,768	40,298	118,477	98,784	11,632
2005	6,495	4,476	10,971	4,364	2,886	4,362	4,293	21	19,545	4,354	39,825	125,154	99,772	12,717
2006	7,265	3,037	10,302	5,074	2,656	4,559	4,519	20	18,350	3,956	39,134	130,789	107,803	12,624
2007	8,665	2,159	10,825	5,812	2,625	4,712	4,932	18	18,702	3,441	40,242	136,712	135,136	14,760
2008	10,045	2,124	12,169	6,828	2,809	4,311	4,636	16	17,635	3,038	39,274	138,870	162,535	14,995
2009	10,665	2,043	12,708	6,894	3,233	4,292	4,431	18	18,452	2,620	39,940	138,904	197,533	16,841

* Including Power Generation from SPP

Table 1.2-2Y
Final Modern Energy Consumption

Unit : KTOE

Year	Solid Fossil Fuel			Petroleum Products								Electricity*	Natural Gas			Total
	Coal	Lignite	Total	LPG	Premium	Regular	JP.	Kerosene	Diesel	Fuel Oil	Total		Energy	NPC	Total	
1986	138	350	488	743	695	996	1,120	117	4,938	1,454	10,063	1,878	166	166	12,595	
1987	194	504	698	793	829	1,106	1,218	105	5,537	1,714	11,302	2,121	64	64	14,185	
1988	225	628	853	883	968	1,210	1,497	103	6,275	1,793	12,729	2,395	81	81	16,058	
1989	284	858	1,142	990	1,137	1,338	1,727	97	7,441	2,296	15,026	2,793	86	109	19,070	
1990	213	1,241	1,454	1,082	1,301	1,446	1,874	101	8,417	2,521	16,742	3,255	136	259	21,710	
1991	293	1,337	1,630	1,163	1,405	1,494	2,017	91	8,524	2,777	17,471	3,770	189	338	23,209	
1992	313	1,498	1,811	1,297	1,652	1,578	2,227	92	8,863	3,344	19,053	4,204	292	446	25,514	
1993	584	2,014	2,598	1,401	2,047	1,612	2,369	88	10,124	3,487	21,128	4,706	357	507	28,939	
1994	948	2,336	3,284	1,515	2,547	1,619	2,562	93	11,046	3,955	23,337	5,329	472	599	32,549	
1995	1,458	2,356	3,814	1,656	3,045	1,644	2,693	82	12,812	4,202	26,134	6,017	641	803	36,768	
1996	2,397	2,236	4,633	1,829	3,608	1,547	2,773	80	14,229	4,315	28,381	6,678	689	853	40,545	
1997	1,995	2,497	4,492	1,881	4,010	1,470	2,896	70	14,487	4,169	28,983	7,101	857	1,047	41,623	
1998	954	2,399	3,353	1,737	3,702	1,639	2,709	45	12,912	3,471	26,215	7,036	823	978	37,582	
1999	1,376	2,199	3,575	1,880	3,491	1,744	2,696	42	13,068	3,924	26,845	7,145	1,081	201	38,847	
2000	1,282	1,776	3,058	2,127	2,553	2,484	2,856	40	12,882	3,774	26,716	7,704	1,629	189	39,296	
2001	1,625	1,791	3,416	2,349	2,236	2,873	3,039	46	13,060	3,687	27,290	8,183	1,690	269	40,848	
2002	1,995	2,148	4,143	2,446	2,224	3,235	3,088	51	13,822	4,032	28,898	8,741	1,872	261	43,915	
2003	3,049	1,313	4,362	2,505	2,298	3,390	3,074	29	15,109	4,128	30,533	9,345	2,033	270	46,543	
2004	3,343	1,911	5,254	2,543	2,257	3,451	3,467	19	16,868	4,488	33,093	10,095	2,427	286	51,155	
2005	4,054	2,135	6,189	2,750	2,150	3,250	3,509	17	16,847	4,098	32,621	10,664	2,451	312	52,237	
2006	4,535	1,449	5,984	3,198	1,979	3,397	3,693	16	15,817	3,723	31,823	11,145	2,649	310	51,911	
2007	5,409	1,030	6,439	3,663	1,956	3,510	4,031	15	16,120	3,239	32,534	11,649	3,320	363	54,305	
2008	6,270	1,013	7,283	4,303	2,093	3,212	3,790	13	15,201	2,859	31,471	11,833	3,993	368	54,948	
2009	6,657	974	7,631	4,344	2,409	3,198	3,622	14	15,906	2,466	31,959	11,836	4,853	414	56,693	

*Including Power Generation from SPP

Table 1.3-1
Energy Reserves (Preliminary Data)
31 December 2009

Energy Type (Original Unit)	Reserves*		Production 2009	Available for Use (Year)	
	P1	P1+P2 P1+P2+P3		P1	P1+P2 P1+P2+P3
Petroleum					
- Crude Oil (MMBBL)	180	641 821	56	3 11	15
- Condensate (MMBBL)	255	422 677	31	8 14	22
- Natural Gas (BCF)	11,026	18,835 29,861	1,092	10 17	27
Lignite (M. Tons)	2,059	2,059	18	113	113
Energy Type (KTOE)	Reserves*	Production	Available for Use (Year)		
	P1	P1+P2+P3	2009	P1	P1+P2+P3
Petroleum					
- Crude Oil	327,254	602,936 930,190	38,317	3	11
- Condensate	24,612	87,645 112,256	7,688	8	14
- Natural Gas	31,733	52,516 84,249	3,811	10	17
Lignite	592,251	592,251	5,260	113	113
Total	919,504	1,195,187 1,522,441	43,577		
Energy Type (MMBBL Crude Oil Equivalent)	Reserves*	Production	Available for Use (Year)		
	P1	P1+P2+P3	2009	P1	P1+P2+P3
Petroleum					
- Crude Oil	2,393	4,410 6,803	280	3	11
- Condensate	180	641 821	56	8	14
- Natural Gas	232	384 616	28	10	17
Lignite	4,331	4,331	38	113	113
Total	6,725	8,741 11,135	319		

Remarks: P1 = Proved Reserves, P2 = Probable Reserves, P3 = Possible Reserves
: Lignite as of 2008

Source : * Department of Mineral Fuels (DMF)



Chapter 2

OIL



บทที่ 2

น้ำมัน



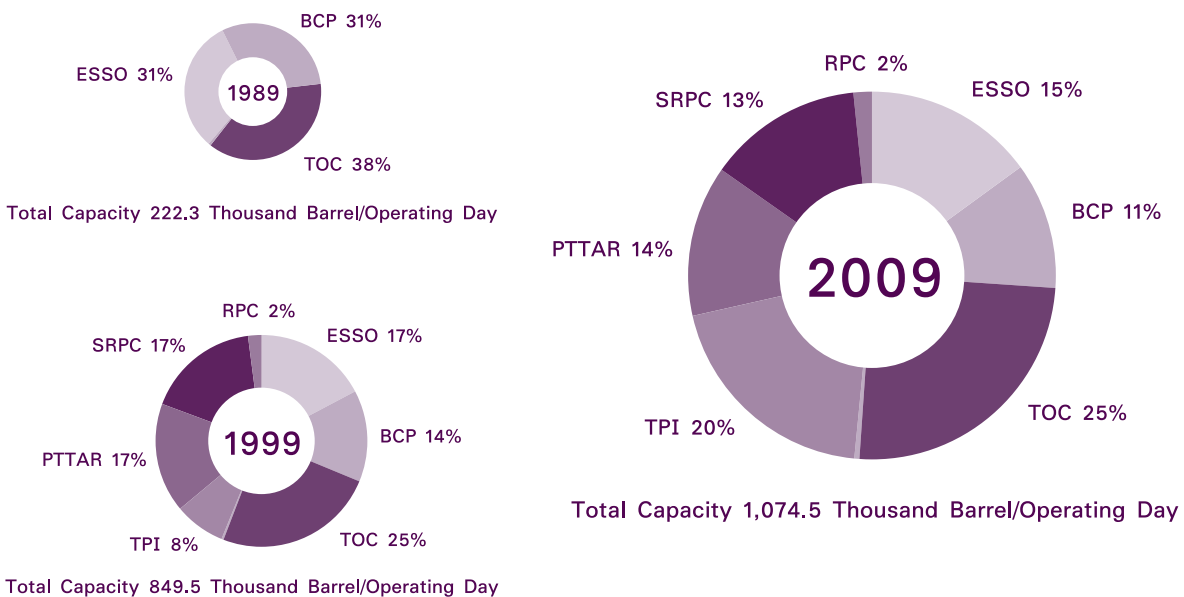
บทที่ 2 น้ำมัน

การผลิตน้ำมันดิบ ในอดีตการผลิตน้ำมันดิบในประเทศไทยมาจากแหล่งสิริกิติ์ซึ่งเป็นแหล่งใหญ่เพียงแห่งเดียว แต่ในปัจจุบันมีแหล่งน้ำมันดิบที่สำคัญเพิ่มขึ้นอีกหลายแห่ง ได้แก่ แหล่งเบญจมาศ ทานตะวัน จัสมิน และบิกออย์โปรเจ็คของบริษัทยูโนแคล ประเทศไทย จำกัด เป็นต้น โดยปี 2009 มีปริมาณการผลิตรวมทั้งสิ้น 154,041 บาร์เรลต่อวัน

การนำเข้าและส่งออกน้ำมันดิบ การนำเข้าส่วนใหญ่มาจากกลุ่มประเทศตะวันออกกลาง ร้อยละ 79 กลุ่มประเทศตะวันออกไกล ร้อยละ 10 และแหล่งอื่น ๆ ร้อยละ 11 ในขณะที่ไทยก็ส่งออกน้ำมันดิบไปยังต่างประเทศ อาทิ เกาหลี สหรัฐอเมริกา และสิงคโปร์ เป็นต้น

การกลั่นน้ำมัน ในปี 2009 ประเทศไทยมีโรงกลั่นน้ำมันจำนวนทั้งสิ้น 8 โรง ประกอบด้วย บริษัทเอสโซ่ ประเทศไทย จำกัด (มหาชน) บริษัทบางจากปิโตรเลียม จำกัด (มหาชน) บริษัทไทยออยล์ จำกัด (มหาชน) บริษัท ปตท. อะโรเมติกส์และการกลั่น จำกัด (มหาชน) บริษัทสตาร์ปิโตรเลียม รีไฟน์นิ่ง จำกัด บริษัทไออาร์พีซี จำกัด (มหาชน) บริษัทระยองเพียวริฟายเออร์ จำกัด (มหาชน) และโรงกลั่นน้ำมันฝาง โดยมีกำลังการกลั่นรวมทั้งสิ้น 1,074,500 บาร์เรลต่อวัน

Thai Refinery Capacity 1989, 1999, 2009



Chapter 2 Oil

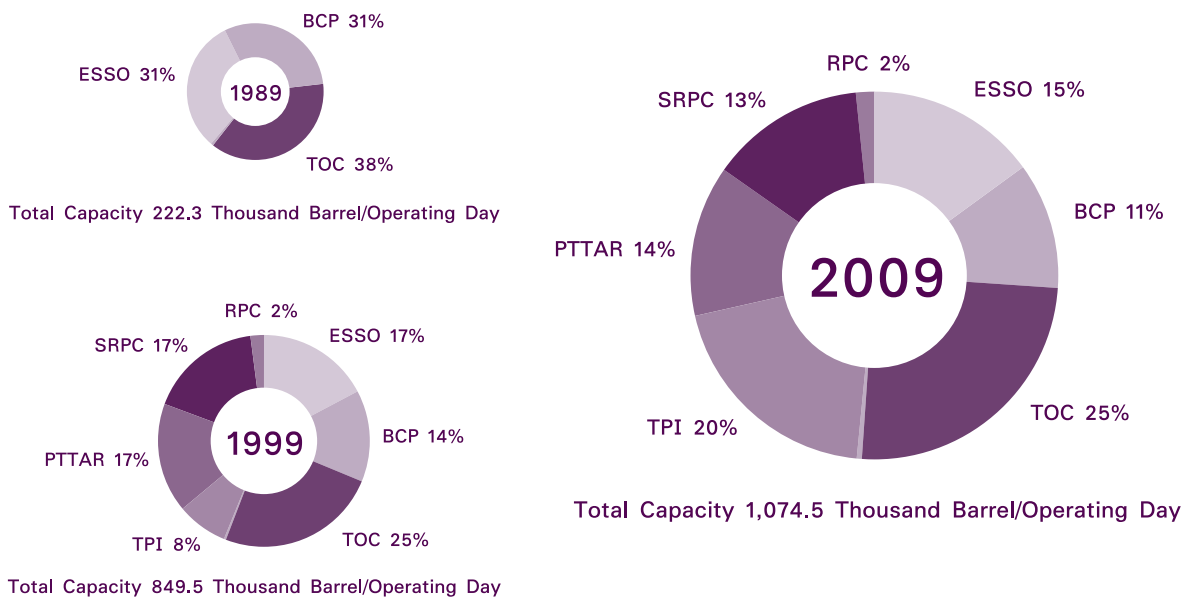


Crude Oil Production. In the past, crude oil production in Thailand came from Sirikit oil field, the only major domestic source then. At present, several major crude oil fields have been developed, i.e. Benjamas, Tantawan, Jasmin and Big Oil Project of Unocal (Thailand) Co., Ltd. In 2009, the accumulated production capacity totaled 154,041 barrels per day (BBL/D).

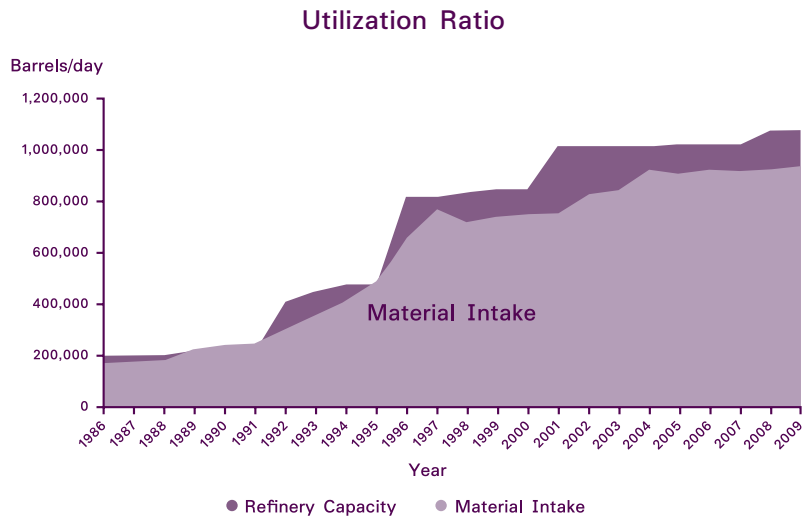
Crude Oil Import and Export. Most of the imports were from the Middle East, holding a share of 79%; the remainder was from the Far East, accounting for 10%, and from other sources, 11%. Concurrently, Thailand also exported crude oil to such countries as Korea, the USA and Singapore.

Oil Refining. As of 2009, there are eight oil refineries in Thailand, comprising 1) ESSO Thailand Co., Ltd., 2) Bangchak Petroleum Public Co., Ltd. (BCP), 3) Thai Oil Public Co., Ltd. (TOC), 4) PTT Aromatics and Refining Public Co., Ltd. (PTTAR), 5) Star Petroleum Refining Co., Ltd. (SPRC), 6) IRPC Public Co., Ltd., 7) Rayong Purifier Public Co., Ltd. (RPC), and 8) Fang Oil Refinery, with a total refining capacity of 1,074,500 BBL/D.

Thai Refinery Capacity 1989, 1999, 2009

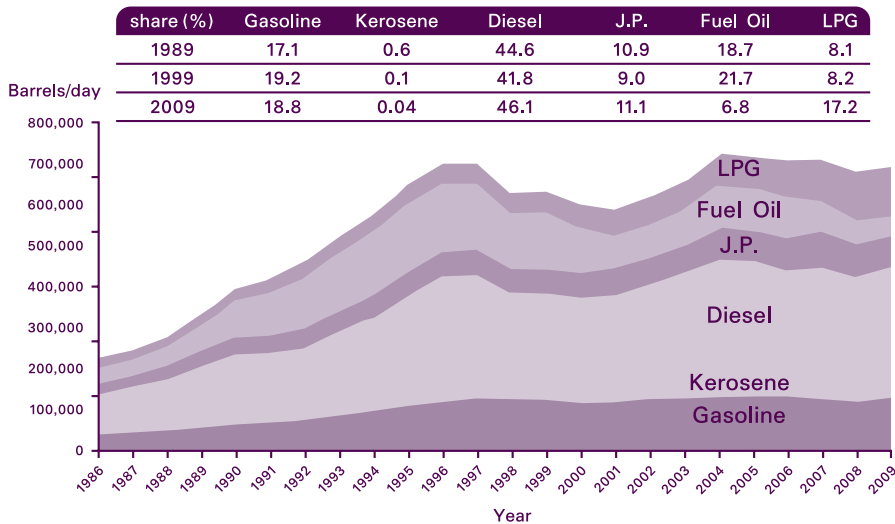


การใช้น้ำมันดิบเพื่อการกลั่นในปี 2009 อยู่ที่ระดับ 936,633 บาร์เรลต่อวัน คิดเป็นสัดส่วนร้อยละ 87 ของความสามารถในการกลั่นของประเทศ



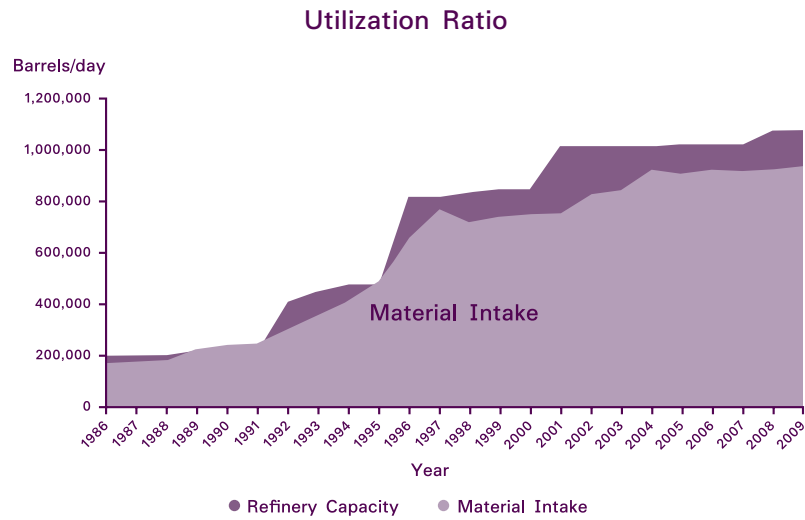
การผลิตและการใช้น้ำมันสำเร็จรูป ในปี 2009 การผลิตน้ำมันสำเร็จรูปอยู่ที่ระดับ 921 พันบาร์เรลต่อวัน ในขณะที่การใช้น้ำมันสำเร็จรูปอยู่ที่ระดับ 690 พันบาร์เรลต่อวัน โดยการใช้ น้ำมันดีเซล มีสัดส่วนมากที่สุดร้อยละ 46 น้ำมันเบนซินร้อยละ 19 ก๊าซปิโตรเลียมเหลว (LPG) ร้อยละ 17 น้ำมันเครื่องบินร้อยละ 11 น้ำมันเตาร้อยละ 7 และน้ำมันก๊าดร้อยละ 0.04

Petroleum Product Consumption

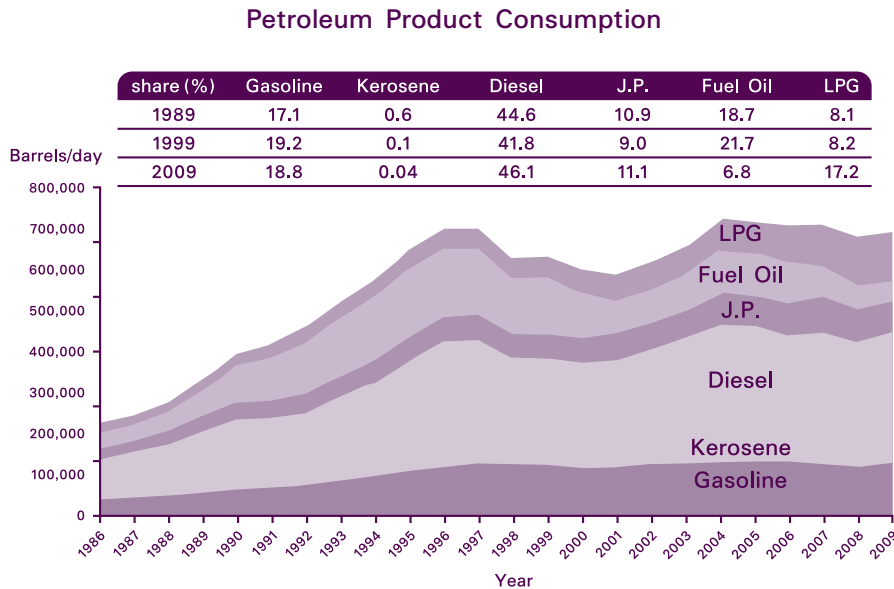


การใช้ LPG ในปี 2009 สาขาครัวเรือนมีสัดส่วนการใช้ลดลงอยู่ที่ร้อยละ 47 ในขณะที่สาขาอุตสาหกรรมปิโตรเคมีและสาขาขนส่งเพิ่มขึ้นมาอยู่ที่ร้อยละ 27 และร้อยละ 14 ตามลำดับ สัดส่วนที่เหลือเป็นของสาขาอุตสาหกรรมอยู่ที่ร้อยละ 12

The refinery intake of crude oil in 2009 was at a level of 936,633 BBL/D, accounting for 87% of the total domestic refining capacity.

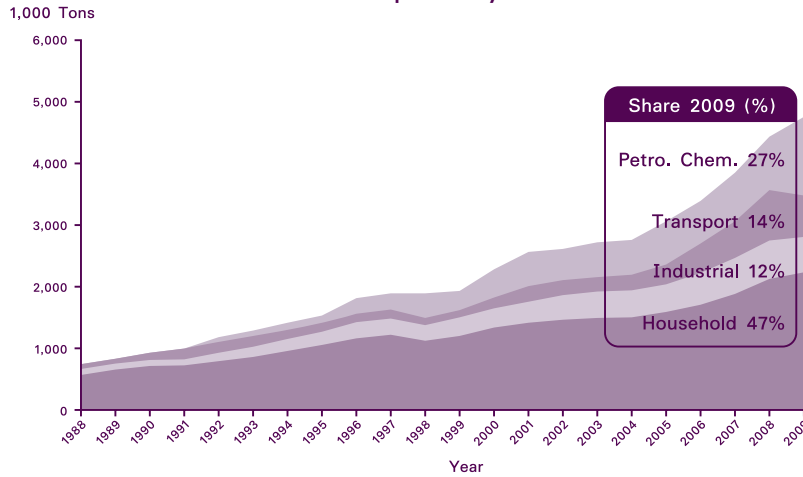


Production and Consumption of Petroleum Products. In 2009, the production of petroleum products was at a volume of 921 KBD while the consumption was at 690 KBD. Diesel consumption accounted for the largest share of 46%; others comprised gasoline, 19%; liquefied petroleum gas (LPG), 17%; jet petroleum, 11%; fuel oil, 7%; and kerosene, 0.04%.

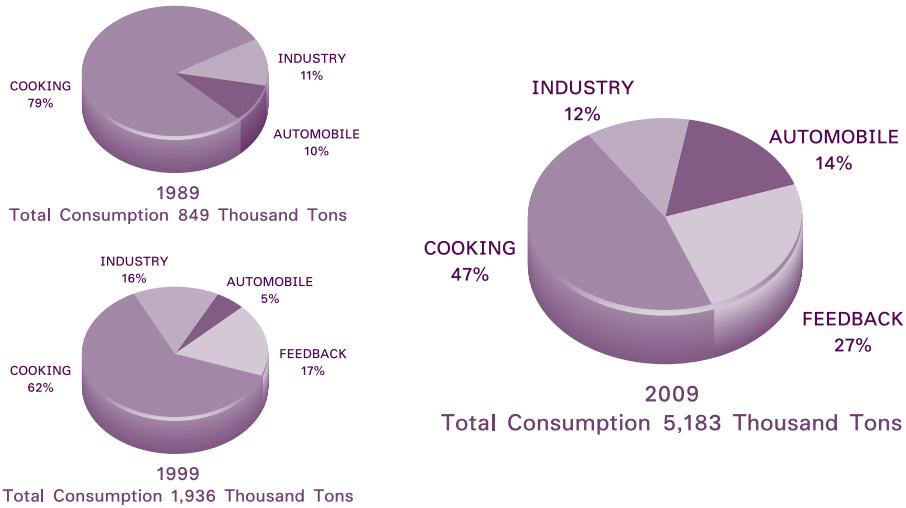


LPG Consumption. In 2009, the share of LPG consumption in the household sector decreased to 47% while that in the petrochemical and transport sectors increased to 27% and 14% respectively; the industrial sector accounted for the remaining share of 12%

LPG Consumption by Sector

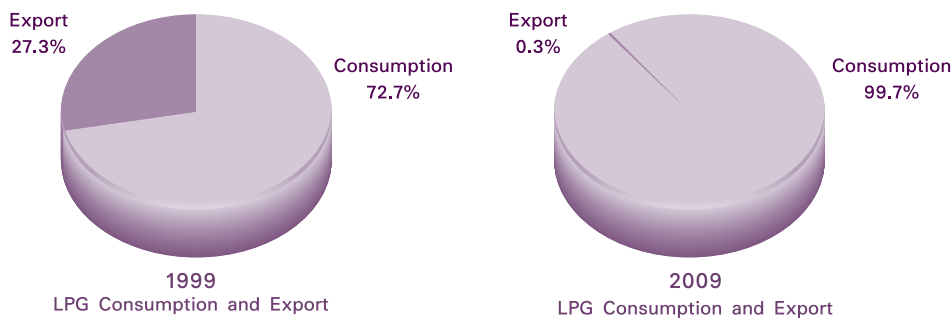


LPG Consumption by Sectors 1989, 1999, 2009



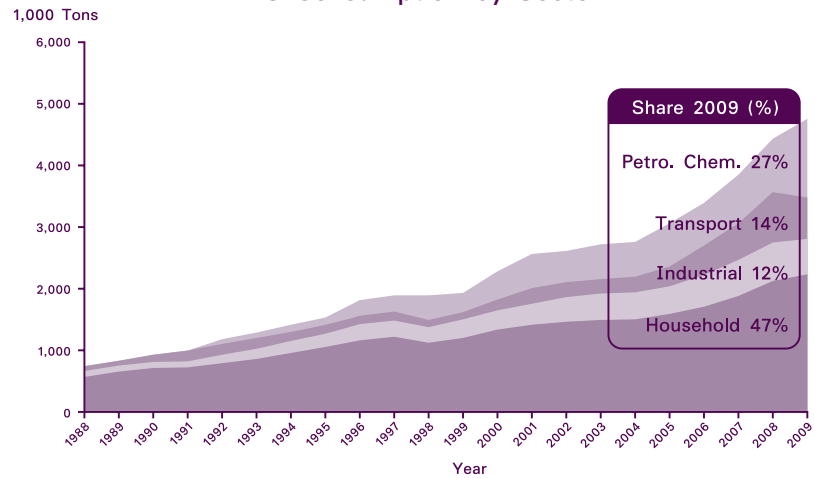
การส่งออก LPG ในปี 2009 การส่งออก LPG มีเพียงเล็กน้อยร้อยละ 0.3 เท่านั้นเมื่อเทียบกับปริมาณการใช้ทั้งหมด ทั้งนี้เนื่องจากความต้องการใช้ LPG ในประเทศมีแนวโน้มเพิ่มสูงขึ้น

Consumption and Export of LPG

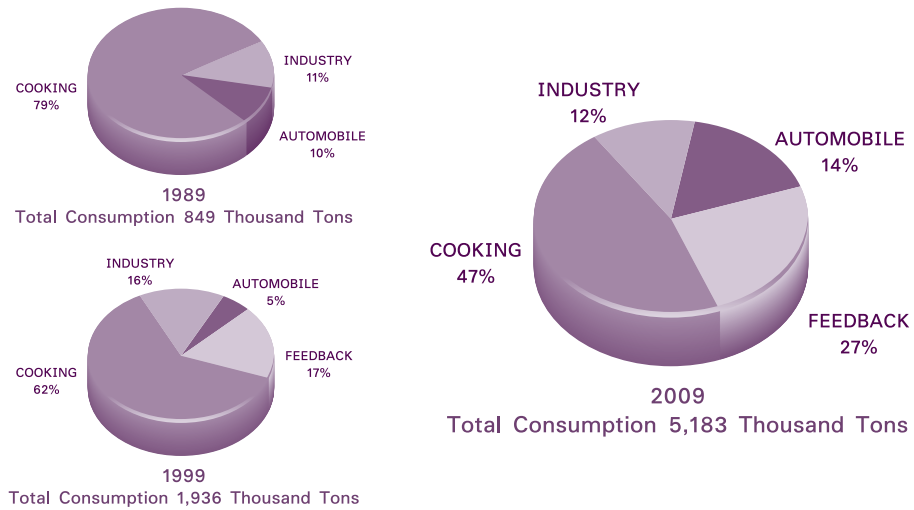


การนำเข้าและส่งออกน้ำมันสำเร็จรูป ในปี 2009 มีการส่งออก 201 พันบาร์เรลต่อวัน ในขณะที่นำเข้าเพียง 8 พันบาร์เรลต่อวัน ทั้งนี้น้ำมันดีเซลมีสัดส่วนการส่งออกมากที่สุด

LPG Consumption by Sector

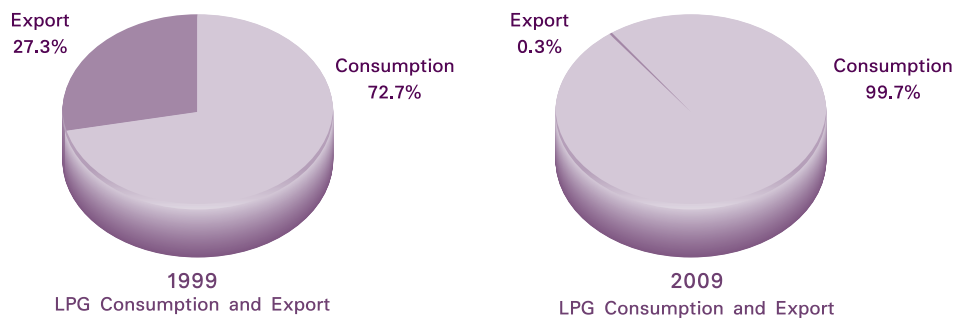


LPG Consumption by Sectors 1989, 1999, 2009



LPG Export. In 2009 the domestic demand of LPG was on the rise. However, there was still a small volume of LPG export accounting for only 0.3% of the total LPG consumption.

Consumption and Export of LPG



Import and Export of Petroleum Products. In 2009 the export volume of petroleum products was 201 KBD while the import volume was only 8 KBD. Diesel accounted for the largest share of the export.

Table 2.1.1-1Y
Production of Crude Oil

Unit : Barrels/Day

Year	Chaba	Bualaug	Songkhla	Big Oil Project	Sirikit	Nasanun	Tantawan	Jusmin	Banyen	Benjamas	Others	Total
1986					20,039							20,039
1987					16,733							16,733
1988					17,892					1,289		19,181
1989					20,197					1,153		21,351
1990					22,759					1,209		23,968
1991					22,762					1,741		24,503
1992					23,500					2,817		26,317
1993					22,065					2,875		24,940
1994					22,245					4,309		26,553
1995					17,631					6,132		23,763
1996					18,701					7,719		26,419
1997					17,672		5,374			4,417		27,463
1998					20,658		6,213			2,548		29,420
1999					23,384		5,056			3,223		34,006
2000					23,483		7,454			24,354		57,937
2001				1,149	21,212		7,938			28,906		61,914
2002				11,634	20,591	2	5,649			35,132		75,567
2003				20,231	19,127		5,193			49,275		96,322
2004				22,021	17,050		4,503			39,378		85,516
2005				29,794	17,129		6,650	5,768		45,819		113,890
2006				38,679	18,775		8,296	8,649		50,004		128,950
2007				39,215	20,511	1,202	7,703	19,267		42,132	4,533	134,563
2008	3,324		287	35,559	20,942	8,222	6,505	18,292	1,445	44,960	4,399	143,935
2009	3,862	8,916	5,063	33,766	21,324	8,346	6,196	13,637	6,596	29,067	17,269	154,041

Source : Department of Mineral Fuels (DMF)
Compiled by : Energy Policy and Planning Office (EPPO)

Table 2.1.1-2Y
Production of Condensate

Unit : Barrels/Day

Year	Pailin	Erawan	Bannpot	Satun	Gomin	Phuhorm	Funan & Jakrawan	Bongkot	Arthit	Trat	Others	Total
1986		6,676		3,365							4,224	14,265
1987		6,362	424	4,764							3,635	15,185
1988		6,257	2,296	5,436							3,930	17,919
1989		7,325	1,863	5,409							3,845	18,441
1990		7,885	1,172	5,506							4,707	19,270
1991		9,691	599	6,152							5,313	21,753
1992		8,476	362	6,990			6,571				4,130	26,530
1993		9,271	389	6,465			7,296	1,557			3,800	28,778
1994		8,978	565	7,245			6,381	3,410			4,035	30,615
1995		9,152	176	6,922	261		5,480	4,150			3,823	29,964
1996		7,999	385	6,944	3,349		4,843	7,803			4,316	35,639
1997		9,529	865	7,261	2,499		6,748	10,103			7,794	44,800
1998		9,601	566	7,420	1,026		7,438	10,830			9,459	46,341
1999	3,261	9,936	553	6,409	789		6,610	13,581		824	7,668	49,631
2000	9,207	8,569	359	4,607	1,410		6,307	13,393		2,198	6,170	52,220
2001	8,272	8,928	233	3,823	607		6,926	16,208		2,589	4,261	51,847
2002	11,330	9,029	393	3,353	647		8,260	16,111		2,306	2,296	53,724
2003	16,975	12,070	237	3,226	4,798		5,568	15,729		2,473	1,587	62,663
2004	19,003	11,726	1,358	3,917	4,505		6,683	17,665		2,047	1,298	68,204
2005	21,620	11,599	1,779	3,586	4,022		6,247	17,839		1,984	811	69,487
2006	25,269	11,101	3,414	2,497	1,219	32	8,302	17,685		4,928	803	75,250
2007	25,276	11,291	3,829	3,931	550	464	11,746	17,869		3,111	778	78,845
2008	23,268	10,594	2,645	4,136	800	458	10,240	18,505	12,610	969	669	84,893
2009	22,106	12,496	1,759	2,937	753	409	6,591	18,300	17,520	647	380	83,900

Source : Department of Mineral Fuels (DMF)
Compiled by : Energy Policy and Planning Office (EPPO)

Table 2.1.2-1Y
Import of Crude Oil Classified by Sources

Unit : Million Litres

Year	Middle East	Far East	Others	Total
1986	4,010	4,328	96	8,434
1987	4,467	4,582	317	9,367
1988	5,690	3,020	304	9,014
1989	8,264	3,358	228	11,849
1990	7,726	4,357	104	12,187
1991	7,375	5,220	214	12,810
1992	9,468	5,789	891	16,148
1993	10,822	7,435	537	18,794
1994	13,190	8,035	415	21,639
1995	16,605	8,951	681	26,237
1996	26,534	9,593	718	36,844
1997	32,597	8,157	1,537	42,291
1998	33,307	5,594	544	39,446
1999	32,281	6,022	2,256	40,558
2000	28,980	7,681	2,509	39,170
2001	32,011	6,948	2,383	41,342
2002	31,453	7,757	3,067	42,278
2003	35,482	7,604	1,939	45,025
2004	40,966	6,607	3,048	50,621
2005	38,302	5,202	4,529	48,033
2006	38,913	4,633	4,580	48,125
2007	36,747	3,469	6,456	46,671
2008	39,145	3,128	4,952	47,225
2009	36,601	4,951	5,068	46,620

Source : Department of Energy Business (DOEB)

Complied by : Energy Policy and Planning Office (EPPO)

Table 2.1.2-2Y
Quantity and Value of Petroleum Products Import

Description	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997
1. Crude Oil												
- Value (M. Baht)	21,374.7	26,833.1	21,413.9	32,592.6	42,792.3	39,854.6	48,644.4	51,024.4	55,362.6	72,121.9	121,936.8	166,545.2
- Quantity (M. Litres)	8,434.0	9,366.5	9,014.1	11,849.2	12,186.7	12,809.8	16,147.9	18,794.0	21,639.1	26,236.8	36,844.4	42,290.8
- Quantity (BBL/D)	145,335.0	161,404.0	154,906.0	204,186.0	210,001.0	220,739.0	278,262.0	323,859.0	372,886.0	452,115.0	633,170.0	728,758.0
- Value (M.US\$)	810.0	1,040.3	844.5	1,263.3	1,673.3	1,560.0	1,910.8	2,013.1	2,199.0	2,889.9	4,798.3	5,312.2
- Price (\$/BBL)	15.3	17.7	14.9	17.0	21.8	19.4	18.8	17.0	16.2	17.5	20.7	20.0
2. Petroleum Products												
- Value (M. Baht)	7,686.9	13,447.0	15,638.8	22,329.4	38,170.7	37,910.3	32,295.0	34,869.4	29,322.6	33,016.5	32,297.2	12,960.8
- Quantity (M. Litres)	2,551.0	3,984.7	5,239.7	6,360.3	9,063.2	9,400.9	9,217.3	10,338.4	9,761.2	10,431.2	8,324.8	3,083.5
- Quantity (BBL/D)	43,958.0	68,665.0	90,043.0	109,600.0	156,178.0	161,998.0	158,833.0	178,152.0	168,206.0	179,751.0	143,061.0	53,134.0
- Value (M.US\$)	291.2	521.3	617.6	866.9	1,489.9	1,484.9	1,267.2	1,374.2	1,163.7	1,323.6	1,273.2	451.6
- Price (\$/BBL)	18.2	20.8	18.7	21.7	26.1	25.1	21.9	21.1	19.0	20.2	24.3	23.3
3. Others												
- Value (M. Baht)			4.6	17.6	76.1	94.3	100.0	362.7	775.2	1,061.5	984.2	2,960.9
- Quantity (M. Litres)		7.4	4.5	4.7	22.2	28.1	32.1	91.4	251.9	324.8	265.6	816.7
- Quantity (BBL/D)		127.0	73.0	80.0	383.0	484.0	553.0	1,575.0	4,340.0	5,597.0	4,564.0	14,073.0
- Value (M.US\$)			0.2	0.7	3.0	3.7	3.9	14.3	30.7	42.5	38.8	104.9
- Price (\$/BBL)			6.3	23.3	21.3	21.0	19.4	24.8	19.4	20.8	23.2	20.4
4. Total Petroleum												
- Value (M. Baht)	29,061.5	40,280.1	37,057.3	54,939.6	81,039.2	77,859.2	81,039.5	86,256.4	85,460.3	106,199.9	155,218.2	182,467.0
- Quantity (M. Litres)	10,992.3	13,355.5	14,258.2	18,214.1	21,272.1	22,238.8	25,397.4	29,223.8	31,652.2	36,992.9	45,434.8	46,190.9
- Quantity (BBL/D)	189,420.0	230,143.0	245,027.0	313,866.0	366,562.0	383,221.0	437,649.0	503,586.0	545,433.0	637,463.0	780,796.0	795,965.0
- Value (M.US\$)	1,101.1	1,561.6	1,462.2	2,130.9	3,166.1	3,048.6	3,181.8	3,401.6	3,393.5	4,255.9	6,110.3	5,868.7
- Price (\$/BBL)	15.9	18.6	16.3	18.6	23.7	21.8	19.9	18.5	17.1	18.3	21.4	20.2

Source : Department of Energy Business
Compiled by : Energy Policy and Planning Office (EPPO)
Remarks : Excluding Lube Oil and Grease



Table 2.1.2-2Y (Cont.)
Quantity and Value of Petroleum Products Import

Description	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
1. Crude Oil												
- Value (M. Baht)	137,100.4	169,633.0	285,862.0	284,373.3	286,952.7	346,056.8	486,627.4	644,933.3	753,782.9	715,789.3	1,002,667.3	623,023.9
- Quantity (M. Litres)	39,445.6	40,557.9	39,169.9	41,341.6	42,277.7	45,024.8	50,621.2	48,032.7	48,125.4	46,671.3	47,225.0	46,620.2
- Quantity (BBL/D)	679,729.0	698,896.0	673,134.0	712,401.0	728,532.0	775,870.0	869,925.0	827,702.0	829,300.0	804,242.0	811,561.0	803,362.0
- Value (M.US\$)	3,277.2	4,442.9	7,042.7	6,365.4	6,663.7	8,309.6	12,037.8	15,932.4	19,824.4	20,706.9	30,131.3	18,150.4
- Price (\$/BBL)	13.2	17.4	28.6	24.5	25.1	29.3	37.8	52.7	65.5	70.5	101.4	61.9
2. Petroleum Products												
- Value (M. Baht)	5,189.6	9,727.8	9,160.4	4,202.1	7,391.2	9,213.3	15,774.5	29,362.6	25,611.6	16,270.9	8,635.9	6,767.9
- Quantity (M. Litres)	1,406.9	2,069.5	1,300.2	514.0	981.5	1,039.4	1,715.0	2,164.7	1,627.3	982.9	403.4	493.0
- Quantity (BBL/D)	24,243.0	35,661.0	22,344.0	8,858.0	16,913.0	17,911.0	29,473.0	37,303.0	28,042.0	16,937.0	6,933.0	8,496.0
- Value (M.US\$)	127.7	254.7	237.2	94.2	171.0	221.3	394.6	728.6	670.0	470.9	267.7	193.2
- Price (\$/BBL)	14.4	19.6	29.0	29.1	27.7	33.8	36.6	53.5	65.5	76.2	105.5	62.3
3. Others												
- Value (M. Baht)	1,835.0	3,117.2	27,648.9	24,611.9	18,425.7	21,825.9	25,758.9	26,317.1	36,738.8	32,046.2	18,109.0	6,311.1
- Quantity (M. Litres)	588.3	814.0	3,823.5	3,646.0	2,656.5	2,638.4	2,464.4	2,044.4	2,382.8	1,982.0	903.2	562.7
- Quantity (BBL/D)	10,138.0	14,027.0	65,706.0	62,828.0	45,777.0	45,465.0	42,350.0	35,229.0	41,061.0	34,154.0	15,521.0	9,696.0
- Value (M.US\$)	46.5	81.3	691.5	553.9	428.1	522.2	638.1	652.5	963.8	927.1	549.8	181.5
- Price (\$/BBL)	12.6	15.9	28.8	24.2	25.6	31.5	41.2	50.8	64.3	74.4	96.8	51.3
4. Total Petroleum												
- Value (M. Baht)	144,125.1	182,478.0	322,671.2	313,187.3	312,769.6	377,096.0	528,160.8	700,612.9	816,133.3	764,106.4	1,029,412.2	636,102.9
- Quantity (M. Litres)	41,440.7	43,441.4	44,293.6	45,501.6	45,915.7	48,702.6	54,800.6	52,241.8	52,135.5	49,636.1	48,531.6	47,675.9
- Quantity (BBL/D)	714,110.0	748,584.0	761,184.0	784,087.0	791,223.0	839,246.0	941,747.0	900,233.0	898,403.0	855,333.0	834,015.0	821,554.0
- Value (M.US\$)	3,451.4	4,778.9	7,971.4	7,013.5	7,262.7	9,053.0	13,070.5	17,313.5	21,458.2	22,104.9	30,948.8	18,525.1
- Price (\$/BBL)	13.2	17.5	28.6	24.5	25.2	29.6	37.9	52.7	65.4	70.8	101.4	61.8

Source : Department of Energy Business
Compiled by : Energy Policy and Planning Office (EPPO)
Remarks : Excluding Lube Oil and Grease

Table 2.1-3-1Y
Quantity and Value of Petroleum Products Export

Description	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
1. Crude Oil											
- Value (M.Baht)											
- Quantity (M.Litres) (BBL/D)											
- Value (M.US\$)											
- Price (\$/BBL)											
2. Petroleum Products											
- Value (M.Baht)											
- Quantity (M.Litres) (BBL/D)	9.47	23.75	34.56	194.51	472.50	412.75	810.40	4,399.43	6,350.68	5,851.66	7,100.70
- Value (M.US\$)	163.00	409.00	596.00	3,343.00	8,142.00	7,112.00	13,965.00	75,604.00	109,435.00	100,836.00	122,360.00
- Price (\$/BBL)											
3. Others											
- Value (M.Baht)											
- Quantity (M.Litres) (BBL/D)			9.04	399.66	480.85	308.65	456.87	415.90	451.32	410.85	718.39
- Value (M.US\$)			156.00	6,868.00	8,286.00	5,319.00	7,873.00	7,147.00	7,777.00	7,080.00	12,379.00
- Price (\$/BBL)											
4. Total Petroleum											
- Value (M.Baht)											
- Quantity (M.Litres) (BBL/D)	9.47	23.75	43.60	594.16	953.35	721.39	1,267.27	4,955.29	6,802.00	6,262.51	7,839.15
- Value (M.US\$)	163.00	409.00	751.00	10,211.00	16,428.00	12,431.00	21,838.00	85,157.00	117,212.00	107,916.00	135,085.00
- Price (\$/BBL)											

Source : Department of Energy Business (DOEB)
Compiled by : Energy Policy and Planning Office (EPPO)

Table 2.1-3-1Y (Cont.)
Quantity and Value of Petroleum Products Export

Description	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
1.Crude Oil										
- Value (M.Baht)		14,448.50	18,075.02	29,355.84	33,883.08	52,858.33	56,834.78	45,811.90	56,575.07	27,409.67
- Quantity (M.Litres)	1,749.75	2,216.18	2,688.87	3,876.48	3,287.65	3,805.71	3,797.65	3,020.28	2,668.79	2,383.15
(BBL/D)	30,069.00	38,189.00	46,335.00	66,800.00	56,502.00	65,580.00	65,441.00	52,046.00	45,863.00	41,067.00
- Value (M.US\$)		324.22	420.60	703.76	836.35	1,300.09	1,494.26	1,324.73	1,703.53	797.72
- Price (\$/BBL)		23.26	24.87	28.86	40.44	54.31	62.56	69.73	101.49	53.22
2.Petroleum Products										
- Value (M.Baht)					70,954.44	99,398.18	138,062.55	127,171.65	225,446.99	174,515.78
- Quantity (M.Litres)	6,393.56	6,916.20	7,132.47	6,129.89	7,004.38	7,092.74	8,399.38	7,746.61	10,403.64	11,681.60
(BBL/D)	109,873.00	119,180.00	122,907.00	105,631.00	120,370.00	122,222.00	144,739.00	133,490.00	178,786.00	201,298.00
- Value (M.US\$)					1,753.33	2,440.45	3,637.40	3,683.57	6,765.35	5,089.58
- Price (\$/BBL)					39.80	54.70	68.85	75.60	103.39	69.27
3.Others										
- Value (M.Baht)					15,504.54	12,135.82	22,863.33	31,904.92	34,936.97	30,770.25
- Quantity (M.Litres)	1,026.48	1,009.63	963.81	1,342.06	1,473.34	1,019.77	1,527.38	2,128.50	2,268.05	2,239.99
(BBL/D)	17,640.00	17,398.00	16,608.00	23,127.00	25,319.00	17,573.00	26,320.00	36,678.00	38,976.00	38,600.00
- Value (M.US\$)					384.48	299.71	602.41	923.28	1,042.18	899.58
- Price (\$/BBL)					41.49	46.73	62.71	68.97	73.06	63.85
4.Total Petroleum										
- Value (M.Baht)		14,448.50	18,075.02	29,355.84	120,342.06	164,392.34	217,760.66	204,888.47	316,959.02	232,695.70
- Quantity (M.Litres)	9,169.79	10,142.01	10,785.15	11,348.43	11,765.57	11,918.21	13,724.41	12,895.39	15,340.48	16,304.74
(BBL/D)	157,583.00	174,768.00	185,850.00	195,557.00	202,191.00	205,375.00	236,500.00	222,214.00	263,626.00	280,964.00
- Value (M.US\$)		324.22	420.60	703.76	2,974.16	4,040.26	5,734.06	5,931.58	9,511.06	6,786.89
- Price (\$/BBL)		5.08	6.20	9.86	40.19	53.90	66.43	73.13	98.57	66.18

Source : Department of Energy Business (DOEB)
Compiled by : Energy Policy and Planning Office (EPPO)

Table 2.2-1Y
Refining Capacity

Unit : Barrels/Day

Company	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997
ESSO	69,680	69,680	69,680	69,680	69,680	69,680	145,000	145,000	145,000	145,000	145,000	145,000
BCP	65,000	65,000	65,000	68,000	68,000	68,000	80,000	120,000	120,000	120,000	120,000	120,000
TOC	65,000	65,000	65,000	83,500	83,500	83,500	183,500	183,500	210,000	210,000	210,000	210,000
FANG	1,000	1,000	1,000	1,100	1,100	1,100	1,200	1,400	1,700	1,700	2,500	2,500
IRPC / TPI											65,000	65,000
PTTAR / RRC											145,000	145,000
STRC											130,000	130,000
RPC												
Total	200,680	200,680	200,680	222,280	222,280	222,280	409,700	449,900	476,700	476,700	817,500	817,500

Company	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
ESSO	145,000	145,000	145,000	160,000	160,000	160,000	160,000	160,000	160,000	160,000	160,000	160,000
BCP	120,000	120,000	120,000	120,000	120,000	120,000	120,000	120,000	120,000	120,000	120,000	120,000
TOC	210,000	210,000	210,000	210,000	210,000	210,000	210,000	220,000	220,000	220,000	270,000	270,000
FANG	2,500	2,500	2,500	2,500	2,500	2,500	2,500	2,500	2,500	2,500	2,500	2,500
IRPC / TPI	65,000	65,000	65,000	215,000	215,000	215,000	215,000	215,000	215,000	215,000	215,000	215,000
PTTAR / RRC	145,000	145,000	145,000	145,000	145,000	145,000	145,000	145,000	145,000	145,000	145,000	145,000
STRC	130,000	145,000	145,000	145,000	145,000	145,000	145,000	145,000	145,000	145,000	145,000	145,000
RPC	17,000	17,000	17,000	17,000	17,000	17,000	17,000	17,000	17,000	17,000	17,000	17,000
Total	834,500	849,500	849,500	1,014,500	1,014,500	1,014,500	1,014,500	1,024,500	1,024,500	1,024,500	1,074,500	1,074,500

Source : Department of Mineral Fuels (DMF)
Compiled by: Energy Policy and Planning Office (EPPO)

Table 2.2-2Y
Material Intake by Refinery

Unit : BBLD

Year	Thai Oil	Bangchak	ESSO	IRPC / TPI	PTTAR / RRC	SPRC	RPC	Total
1986	69,765	42,772	61,632					174,169
1987	68,442	43,969	65,991					178,401
1988	69,263	48,994	65,929					184,186
1989	96,972	50,732	77,716					225,420
1990	103,611	64,837	72,354					240,803
1991	105,693	69,242	73,691					248,626
1992	150,198	77,025	78,409					305,631
1993	192,327	90,489	74,903					357,719
1994	209,436	107,774	96,810					414,020
1995	214,493	110,400	150,404	10,192				485,490
1996	194,645	97,795	150,675	36,179	104,224	75,488		659,006
1997	205,889	98,563	144,951	49,631	132,081	136,346		767,461
1998	187,864	91,296	120,497	56,076	129,590	130,875	5,611	721,808
1999	164,056	95,091	118,480	58,917	147,630	150,265	7,518	741,957
2000	169,385	85,597	134,558	65,953	142,983	142,948	8,205	749,629
2001	192,555	73,819	135,659	66,769	138,253	138,253	10,706	756,014
2002	204,849	72,709	126,901	129,884	142,159	142,159	9,028	827,688
2003	225,616	74,655	136,917	127,116	135,347	135,347	11,093	846,091
2004	223,125	90,113	129,869	178,104	146,469	147,073	11,097	925,850
2005	226,465	62,738	152,965	178,124	138,709	138,709	11,487	909,198
2006	229,326	57,070	150,485	169,417	153,689	153,689	11,822	925,498
2007	208,907	65,827	148,266	189,299	147,782	147,702	12,976	920,759
2008	272,648	73,540	141,046	171,788	127,455	127,455	11,498	925,432
2009	268,177	85,098	137,506	140,469	142,634	152,514	10,234	936,633

Source : Department of Energy Business

Compiled by : Energy Policy and Planning Office (EPPO)

Remark : Since mid of December 2007 RRC merged with ATC to form PTTAR.

Unit : Million Litres

Table 2.3.1-1Y
Production of Petroleum Products

Year	Gasoline		Kerosene		Diesel		J.P.	Fuel Oil	LPG	Total	
	Total	Regular	Premium	Total	HSD	LSD					
1986	2,245.3	1,319.9	925.4	130.1	3,663.5	3,588.1	75.4	1,151.2	2,183.8	1,078.5	10,452.3
1987	2,425.2	1,418.3	1,006.9	135.8	3,735.9	3,642.1	93.8	1,140.8	2,202.3	1,026.4	10,666.4
1988	2,533.5	1,443.9	1,089.6	120.4	3,459.7	3,366.6	93.1	1,307.1	2,575.4	1,120.8	11,116.8
1989	2,757.1	1,601.3	1,155.8	131.0	4,202.6	4,075.0	127.6	1,662.6	3,403.4	882.5	13,039.2
1990	3,044.9	1,777.2	1,267.7	140.1	4,427.0	4,305.4	121.6	1,778.1	3,540.1	1,347.1	14,277.2
1991	3,106.1	1,919.5	1,186.6	100.2	4,794.6	4,655.4	139.2	1,856.0	3,587.6	1,817.3	15,261.7
1992	3,751.3	2,270.6	1,480.6	121.6	6,093.5	5,936.3	157.3	2,083.5	4,328.7	2,113.1	18,491.7
1993	4,603.2	2,442.2	2,161.0	124.6	7,273.9	7,069.9	204.0	2,321.4	4,739.5	2,304.0	21,366.6
1994	5,025.0	2,034.7	2,990.3	120.6	8,432.9	8,218.6	214.3	2,700.4	5,763.6	2,264.7	24,307.2
1995	6,181.6	2,247.4	3,934.2	113.0	10,073.7	9,866.5	207.2	3,138.3	6,000.6	2,852.4	28,359.5
1996	7,969.5	2,693.4	5,276.1	189.3	13,929.9	13,754.5	175.4	3,572.0	8,354.1	3,493.0	37,507.7
1997	9,419.5	2,879.6	6,539.9	122.7	17,272.5	17,128.3	144.3	3,810.8	8,701.9	4,231.1	43,558.6
1998	8,722.1	2,798.9	5,923.2	114.9	16,437.3	16,326.4	111.0	3,567.4	7,846.2	4,064.0	40,751.9
1999	8,631.5	2,762.7	5,868.8	346.7	15,948.2	15,817.1	131.1	4,119.0	7,828.8	4,587.3	41,461.4
2000	8,086.5	3,792.3	4,294.2	491.2	16,105.7	15,991.3	114.4	4,347.8	6,990.7	5,168.9	41,190.8
2001	8,327.2	4,131.3	4,195.9	587.1	16,666.8	16,558.7	108.1	4,237.2	6,465.9	5,893.2	42,177.4
2002	8,250.8	4,305.3	3,945.5	549.6	17,520.0	17,418.6	101.4	4,669.9	5,979.6	5,893.6	42,863.4
2003	8,639.7	4,662.2	3,977.4	697.3	19,176.8	19,072.2	104.6	4,257.3	6,080.9	6,180.2	45,032.1
2004	8,957.2	4,846.3	4,110.9	1,119.5	21,243.3	21,127.1	116.1	4,630.8	6,721.5	6,601.2	49,273.5
2005	9,232.7	5,076.1	4,156.6	1,016.7	20,797.2	20,713.0	84.2	4,836.6	6,159.2	7,192.8	49,235.0
2006	9,089.9	5,034.7	4,055.2	1,041.1	21,149.4	21,095.3	54.0	5,602.9	6,308.1	7,230.0	50,421.2
2007	8,702.9	5,068.1	3,634.8	123.4	21,994.9	21,963.5	31.4	5,322.6	6,452.0	7,752.2	50,348.0
2008	8,449.0	4,900.1	3,548.9	194.9	20,769.0	20,765.4	3.7	6,001.9	6,873.3	8,560.3	50,848.3
2009	8,852.1	5,190.3	3,661.8	92.9	22,489.0	22,489.0		5,975.0	6,884.2	9,146.7	53,439.8

Source : Department of Energy Business
Compiled by : Energy Policy and Planning Office (EPPO)

Table 2.3.1-2Y
Production of Petroleum Products

Unit : Barrels/Day

Year	Gasoline		Kerosene		Diesel		J.P.	Fuel Oil	LPG	Total
	Total	Regular	Premium	Total	HSD	LSD				
1986	38,691.1	22,744.6	15,946.5	2,241.8	61,830.3	1,299.2	19,837.5	37,631.3	18,584.7	180,115.5
1987	41,791.2	24,440.2	17,350.9	2,340.1	62,760.9	1,616.3	19,658.3	37,950.1	17,686.9	183,805.0
1988	43,538.1	24,813.3	18,724.7	2,069.0	57,854.9	1,599.9	22,462.4	44,258.2	19,260.9	191,043.6
1989	47,510.5	27,593.7	19,916.8	2,257.4	70,220.6	2,198.8	28,650.0	58,647.6	15,207.2	224,693.8
1990	52,469.9	30,624.8	21,845.0	2,414.2	74,190.9	2,095.4	30,640.3	61,003.2	23,213.3	246,026.7
1991	53,524.5	33,076.9	20,447.5	1,726.6	80,222.1	2,398.7	31,982.7	61,821.7	31,315.8	262,991.7
1992	64,466.0	39,020.2	25,444.0	2,089.6	102,015.2	2,703.1	35,804.9	74,388.6	36,313.5	317,780.1
1993	79,322.6	42,084.1	37,238.4	2,147.1	121,828.9	3,515.3	40,002.5	81,671.3	39,702.6	368,190.8
1994	86,591.1	35,062.0	51,529.0	2,078.1	141,623.4	3,692.8	46,533.4	99,318.7	39,025.4	418,863.6
1995	106,521.7	38,727.3	67,794.3	1,947.2	173,590.6	3,570.4	54,079.3	103,402.7	49,152.7	488,694.3
1996	136,955.7	46,286.0	90,669.6	3,253.1	239,385.0	3,014.2	61,384.7	143,565.0	60,027.1	644,569.9
1997	162,317.4	49,621.4	112,695.9	2,114.3	297,640.8	2,486.5	65,667.9	149,951.7	72,910.5	750,605.3
1998	150,299.7	48,230.8	102,068.9	1,979.9	283,248.6	1,912.7	61,473.6	135,206.2	70,031.1	702,241.0
1999	148,738.5	47,607.0	101,131.5	5,974.3	274,820.4	2,259.1	70,978.8	134,906.3	79,048.6	714,466.5
2000	138,966.3	65,170.6	73,795.7	8,441.2	276,776.1	1,965.9	74,716.8	120,135.0	88,827.4	707,863.6
2001	143,494.8	71,190.8	72,304.0	10,116.9	287,203.3	1,862.7	73,015.7	111,420.8	101,552.0	726,805.0
2002	142,178.3	74,189.2	67,989.1	9,470.7	301,905.7	1,747.3	80,472.0	103,040.8	101,558.8	738,625.0
2003	148,879.8	80,339.3	68,538.8	12,015.9	330,455.8	1,802.4	73,362.0	104,786.4	106,497.6	775,997.2
2004	153,929.3	83,283.5	70,645.7	19,238.5	365,065.7	1,995.1	79,580.2	115,508.8	113,441.5	846,764.4
2005	159,098.4	87,471.6	71,626.8	17,519.8	358,378.7	1,450.9	83,344.6	106,135.7	123,946.7	848,421.8
2006	156,637.7	86,758.2	69,879.4	17,940.3	364,447.8	930.5	96,549.5	108,701.5	124,587.8	868,862.9
2007	149,968.9	87,333.8	62,635.1	2,126.4	379,017.5	541.0	91,719.3	111,181.2	133,586.4	867,600.4
2008	145,195.9	84,208.1	60,987.7	3,349.3	356,914.9	63.5	103,142.5	118,117.5	147,108.6	873,828.6
2009	152,539.9	89,439.5	63,100.3	1,600.8	387,531.9	387,531.9	102,961.5	118,628.9	157,616.5	920,879.0

Source : Department of Energy Business
Compiled by : Energy Policy and Planning Office (EPPO)

Table 2.3.2-1Y
Sale of Petroleum Products

Unit : Million Litres

Year	Gasoline		Kerosene		Diesel		J.P.	Fuel Oil	LPG*	Total
	Total	Regular	Premium	Total	HSD	LSD				
1986	2,268.9	1,336.2	932.8	143.1	5,737.0	5,666.7	1,369.7	2,410.2	1,179.1	13,108.0
1987	2,596.7	1,483.8	1,112.9	129.0	6,428.5	6,335.5	1,490.1	2,395.7	1,258.7	14,298.6
1988	2,922.9	1,623.4	1,299.5	125.6	7,284.6	7,187.4	1,831.7	2,735.9	1,400.7	16,301.3
1989	3,321.7	1,795.8	1,525.9	119.2	8,649.7	8,520.2	2,112.3	3,634.1	1,571.5	19,408.5
1990	3,686.9	1,940.6	1,746.3	123.0	9,928.0	9,811.1	2,292.3	5,210.1	1,716.3	22,956.6
1991	3,890.4	2,005.1	1,885.3	111.3	9,950.6	9,811.1	2,467.9	6,113.7	1,844.8	24,378.7
1992	4,335.0	2,117.7	2,217.3	112.3	10,353.8	10,194.8	2,724.2	7,271.0	2,058.5	26,854.8
1993	4,911.8	2,163.9	2,747.9	107.5	12,033.3	11,833.7	2,898.6	8,026.8	2,223.9	30,201.8
1994	5,591.2	2,172.6	3,418.6	113.7	13,288.8	13,069.1	3,133.7	8,991.1	2,403.6	33,522.0
1995	6,293.3	2,206.2	4,087.1	100.9	15,619.1	15,424.1	3,294.5	9,722.4	2,628.8	37,658.9
1996	6,918.1	2,076.1	4,842.0	98.4	17,826.6	17,665.5	3,393.0	9,653.1	2,902.5	40,791.5
1997	7,355.3	1,973.0	5,382.3	85.9	17,535.2	17,387.8	3,542.7	9,094.4	2,985.4	40,598.8
1998	7,168.3	2,199.2	4,969.2	55.1	15,285.0	15,167.2	3,314.5	7,940.5	2,757.1	36,520.4
1999	7,025.6	2,340.1	4,685.4	51.7	15,294.9	15,159.5	3,297.7	7,931.1	2,983.3	36,584.3
2000	6,761.6	3,334.5	3,427.1	48.8	14,973.7	14,868.1	3,493.7	6,373.4	3,375.4	35,026.5
2001	6,857.1	3,856.0	3,001.0	56.5	15,225.9	15,121.0	3,717.4	4,563.8	3,728.4	34,148.9
2002	7,326.0	4,341.4	2,984.7	61.8	16,076.9	15,963.6	3,777.7	4,782.7	3,881.9	35,906.9
2003	7,635.1	4,550.3	3,084.8	35.8	17,550.3	17,450.8	3,761.3	4,990.6	3,975.2	37,948.2
2004	7,660.7	4,631.3	3,029.3	23.3	19,623.9	19,519.3	4,241.9	6,064.2	4,035.1	41,648.9
2005	7,248.1	4,362.1	2,886.0	21.3	19,593.8	19,516.6	4,292.7	6,204.8	4,363.9	41,724.5
2006	7,215.1	4,558.9	2,656.3	19.7	18,371.0	18,311.8	4,518.5	5,851.3	5,074.4	41,050.0
2007	7,336.8	4,711.6	2,625.2	18.2	18,709.7	18,676.9	4,931.8	4,221.5	5,812.4	41,030.4
2008	7,120.6	4,311.4	2,809.2	15.7	17,643.0	17,633.6	4,636.5	3,287.3	6,828.4	39,531.4
2009	7,524.4	4,291.6	3,232.8	17.6	18,465.3	18,465.3	4,431.5	2,730.9	6,894.3	40,063.9

Source : Department of Energy Business

Compiled by : Energy Policy and Planning Office (EPPO)

* Excluding LPG used as Feedstock in Petrochemical Industry



Table 2.3.2-2Y
Sale of Petroleum Products

Unit : Barrels/Day

Year	Gasoline		Kerosene		Diesel		J.P.	Fuel Oil	LPG*	Total
	Total	Regular	Premium	Total	HSD	LSD				
1986	39,097.8	23,025.4	16,074.0	2,465.9	98,880.3	97,648.9	23,602.7	41,532.7	20,318.3	225,878.9
1987	44,746.5	25,568.9	19,177.5	2,222.9	110,776.3	109,173.7	25,677.5	41,282.8	21,690.0	246,395.7
1988	50,229.9	27,898.1	22,331.8	2,158.4	125,185.7	123,515.3	31,477.7	47,016.3	24,071.0	280,137.8
1989	57,239.7	30,945.3	26,294.4	2,054.0	149,052.1	146,820.6	36,399.2	62,623.0	27,080.1	334,448.6
1990	63,532.9	33,440.5	30,092.3	2,119.5	171,079.9	169,065.5	39,501.0	89,780.7	29,575.3	395,589.7
1991	67,039.6	34,552.0	32,487.6	1,917.9	171,469.3	169,065.5	42,527.0	105,351.6	31,789.7	420,095.9
1992	74,496.9	36,392.6	38,104.2	1,929.8	177,929.8	175,197.4	46,815.3	124,952.0	35,375.2	461,500.5
1993	84,640.4	37,288.4	47,351.9	1,852.4	207,358.6	203,919.0	49,948.8	138,318.3	38,322.3	520,440.4
1994	96,347.9	37,438.3	58,909.5	1,959.2	228,993.4	225,207.5	54,000.1	154,935.2	41,418.9	577,654.2
1995	108,446.5	38,017.3	70,429.1	1,738.7	269,149.3	265,789.0	56,771.0	167,537.0	45,299.6	648,940.8
1996	118,887.4	35,677.7	83,209.6	1,691.0	306,349.8	303,581.3	58,308.6	165,888.3	49,879.4	701,002.8
1997	126,747.0	33,998.8	92,748.1	1,480.2	302,167.7	299,627.7	61,048.0	156,715.2	51,444.6	699,601.4
1998	123,524.6	37,896.7	85,629.5	949.4	263,392.1	261,362.1	57,115.6	136,831.2	47,510.5	629,323.5
1999	121,065.5	40,324.7	80,739.1	890.8	263,562.7	261,229.4	56,826.1	136,669.2	51,408.4	630,424.2
2000	116,197.9	57,303.3	58,894.6	838.6	257,322.7	255,508.0	60,039.1	109,526.7	58,006.1	601,929.8
2001	118,161.9	66,446.8	51,713.4	973.6	262,373.6	260,566.0	64,058.4	78,643.6	64,248.0	588,457.5
2002	126,242.1	74,811.2	51,432.5	1,064.9	277,038.1	275,085.7	65,097.5	82,415.7	66,893.1	618,751.4
2003	131,568.5	78,411.0	53,157.4	616.9	302,427.9	300,713.3	64,814.9	85,998.3	68,500.9	653,927.5
2004	131,648.9	79,588.8	52,058.4	400.4	337,236.3	335,438.8	72,896.9	104,213.1	69,343.1	715,737.2
2005	124,899.7	75,167.9	49,731.7	367.0	337,641.6	336,311.3	73,972.0	106,921.5	75,199.0	718,999.6
2006	124,331.0	78,559.2	45,773.5	339.4	316,570.2	315,550.1	77,863.0	100,829.9	87,442.3	707,376.9
2007	126,428.2	81,190.5	45,237.6	313.6	322,406.7	321,841.5	84,985.0	72,745.1	100,159.6	707,038.8
2008	122,367.3	74,091.3	48,276.0	269.8	303,194.6	303,033.1	79,678.1	56,492.1	117,345.9	679,346.7
2009	129,660.9	73,953.1	55,707.8	303.2	318,195.2	318,195.2	76,363.8	47,059.0	118,803.0	690,385.4

Source : Department of Energy Business

Compiled by : Energy Policy and Planning Office (EPPO)

* Excluding LPG used as Feedstock in Petrochemical Industry

Table 2.3.3-1Y
Import of Petroleum Products

Unit : Million Litres

Year	Gasoline		Kerosene		Diesel		J.P.	Fuel Oil	LPG	Total
	Total	Regular	Premium	Total	HSD	LSD				
1986					2,150.4	4.5	208.6	82.3	105.2	2,550.9
1987	223.2	101.6	121.6	2,679.5	2,678.5	1.0	368.0	486.6	227.4	3,984.7
1988	375.2	195.4	179.8	3,763.4	3,763.4		545.1	285.7	270.3	5,239.6
1989	613.6	206.9	406.7	4,309.6	4,309.6		495.3	247.2	694.6	6,360.2
1990	652.7	180.3	472.4	5,590.2	5,590.2		524.2	1,777.5	518.5	9,063.2
1991	802.5	105.2	697.3	5,161.7	5,161.7		580.7	2,664.9	191.2	9,400.9
1992	1,058.7	71.2	987.6	4,294.7	4,294.7		685.2	3,175.4	3.3	9,217.3
1993	938.8	109.3	829.6	5,382.6	5,382.6		655.5	3,350.1	11.3	10,338.3
1994	833.1	416.0	417.1	4,786.4	4,786.4		524.9	3,524.1	92.7	9,761.2
1995	653.2	289.1	364.1	5,815.9	5,815.9		192.1	3,745.8	24.3	10,431.1
1996	351.9	119.9	232.1	5,133.8	5,133.8		71.9	2,741.8	25.2	8,324.7
1997	68.1	47.7	20.5	2,005.5	2,005.5	37.2	23.2	945.9	3.6	3,083.4
1998	25.0	16.8	8.2	716.0	716.0		1.6	661.4	2.8	1,406.8
1999	51.8	18.7	33.1	1,084.5	1,084.5		4.0	929.1		2,069.4
2000	29.1	17.7	11.4	645.5	645.5		3.0	622.6		1,300.2
2001	144.2	144.2		321.7	321.7		3.6			469.4
2002	224.2	217.4	6.9	706.5	706.5		50.8			981.4
2003	139.3	139.3		605.3	605.3		42.5	210.9		997.9
2004	192.7	169.8	22.9	713.5	713.5		49.8	753.1	5.9	1,715.0
2005				719.4	719.4		2.6	1442.8		2,164.7
2006				364.8	364.8		33.9	1105		1,503.7
2007	162.1	135.2	26.9	191.0	191.0		42.8	536.3		932.1
2008				89.6	89.6		47.9	254.3	11.6	403.4
2009	14.1	14.1		385.3	385.3		10.5	83.2		493.0

Source : Department of Energy Business
Compiled by : Energy Policy and Planning Office (EPPO)

Table 2.3.3-2Y
Import of Petroleum Products

Unit : Barrels/Day

Year	Gasoline		Premium	Kerosene	Diesel		J.P.	Fuel Oil	LPG	Total
	Total	Regular			Total	HSD				
1986					37,133.3	37,055.8	3,594.6	1,418.1	1,812.8	43,958.4
1987	3,846.1	1,750.7	2,095.4		46,173.3	46,156.0	6,341.4	8,385.1	3,918.5	68,664.7
1988	6,447.8	3,357.9	3,089.8		64,673.9	64,673.9	9,367.5	4,909.7	4,645.1	90,043.3
1989	10,573.5	3,565.3	7,008.2		74,263.3	74,263.3	8,535.0	4,259.7	11,969.3	109,600.2
1990	11,247.3	3,106.9	8,140.4		96,330.6	96,330.6	9,033.0	30,629.9	8,934.8	156,178.0
1991	13,828.7	1,812.8	12,015.9		88,946.7	88,946.7	10,006.6	45,921.7	3,294.7	161,997.6
1992	18,193.7	1,223.5	16,971.8		73,804.3	73,804.3	11,775.1	54,569.1	56.7	158,399.4
1993	16,177.4	1,883.4	14,295.7		92,753.3	92,753.3	11,295.6	57,729.1	194.7	178,151.5
1994	14,356.0	7,168.5	7,187.4		82,479.5	82,479.5	9,045.1	60,727.5	1,597.4	168,206.2
1995	11,255.9	4,981.7	6,274.1		100,219.9	100,219.9	3,310.2	64,547.8	418.7	179,751.0
1996	6,047.3	2,060.4	3,988.6		88,224.2	88,224.2	1,235.6	47,117.7	433.0	143,060.8
1997	1,173.5	821.9	353.2	641.0	34,558.9	34,558.9	399.7	16,299.8	62.0	53,134.2
1998	430.8	289.4	141.3		12,338.1	12,338.1	27.5	11,397.2	48.2	24,242.8
1999	892.6	322.2	570.3		18,688.1	18,688.1	68.9	16,010.3		35,661.3
2000	500.0	304.1	195.9		11,092.9	11,092.9	51.5	10,699.3		22,343.9
2001	2,484.8	2,484.8			5,543.5	5,543.5	62.0			8,089.8
2002	3,863.4	3,746.2	118.9		12,174.4	12,174.4	875.3			16,913.0
2003	2,400.4	2,400.4			10,430.5	10,430.5	732.3	3,634.2		17,197.1
2004	3,311.5	2,918.0	393.5		12,261.4	12,261.4	855.8	12,942.0	101.3	29,472.5
2005					12,396.7	12,396.7	44.8	24,862.4		37,302.8
2006					6,286.2	6,286.2	584.1	19,041.4		25,911.9
2007	2,793.3	2,329.7	463.5		3,291.3	3,291.3	737.5	9,241.5		16,062.7
2008					1,539.7	1,539.7	823.1	4,370.1	199.3	6,933.1
2009	242.9	242.9			6,639.5	6,639.5	180.9	1,433.7		8,496.1

Source : Department of Energy Business
Compiled by : Energy Policy and Planning Office (EPPO)

Table 2.3.4-1Y
Export of Petroleum Products

Unit : Million Litres

Year	Gasoline		Premium	Kerosene	Diesel		J.P.	Fuel Oil	LPG	Total
	Total	Regular			HSD	LSD				
1989	4.1	3.9	0.2		5.4	5.4				9.4
1990	9.3	8.5	0.8		14.5	14.5				23.7
1991	16.7	16.0	0.7		17.4	17.4	0.3		0.2	34.5
1992	105.6	104.5	1.1		23.3	23.3	6.2		59.4	194.5
1993	304.2	301.5	2.7	0.3	54.1	54.1	7.2	19.5	87.2	472.5
1994	239.4	235.1	4.2	0.4	71.2	71.2	9.6	25.5	27.0	373.0
1995	274.0	255.8	18.2	0.3	87.3	87.3	13.6	44.5	187.9	607.5
1996	1,236.8	705.3	531.5	39.1	1,071.1	1,071.1	195.4	1,014.8	364.5	3,921.5
1997	1,948.7	935.0	1,013.6	13.7	1,953.1	1,953.1	277.5	715.2	873.6	5,781.7
1998	1,716.1	635.8	1,080.3	26.3	2,203.2	2,203.2	236.8	199.4	873.3	5,255.0
1999	1,708.5	486.3	1,222.3	302.2	1,976.0	1,976.0	820.8	330.8	1,346.1	6,484.3
2000	1,102.3	329.9	772.4	391.7	1,676.8	1,676.8	816.4	769.3	1,240.5	5,996.9
2001	1,480.6	382.8	1,097.8	394.7	1,642.8	1,642.8	487.8	1,503.6	1,403.3	6,916.2
2002	1,230.4	220.9	1,009.5	318.5	2,331.6	2,331.6	920.7	766.8	1,269.9	6,837.8
2003	1,108.3	251.1	857.3	109.4	2,148.2	2,148.2	558.0	779.9	1,426.1	6,129.8
2004	1,359.5	316.5	1,043.0	58.9	2,381.6	2,381.6	367.1	1,078.3	1,648.6	6,893.9
2005	2,021.9	738.5	1,283.4	3.8	1,809.0	1,809.0	599.3	903.4	1,755.3	7,092.7
2006	1,921.9	514.4	1,407.5	34.0	2,940.5	2,940.5	1,017.3	1,418.6	1,067.2	8,399.3
2007	1,578.90	543.20	1,035.70	37.20	2,689.50	2,689.50	449.00	2,478.00	514.00	7,746.60
2008	1,478.40	648.00	830.40	108.60	3,806.30	3,806.30	1,346.80	3,624.30	39.30	10,403.60
2009	1,351.10	903.90	447.20	19.00	4,796.50	4,796.50	1,609.30	3,878.00	27.80	11,681.60

Source : Department of Energy Business
Compiled by : Energy Policy and Planning Office (EPPO)

Table 2.3.4-2Y
Export of Petroleum Products

Unit : Barrels/Day

Year	Gasoline		Kerosene		Diesel		J.P.	Fuel Oil	LPG	Total
	Total	Regular	Premium	Total	HSD	LSD				
1989	70.6	67.2	3.4	93.0	93.0					163.1
1990	160.2	146.4	13.7	249.8	249.8					409.3
1991	287.7	275.7	12.0	299.8	299.8	5.1		3.4		595.5
1992	1,814.7	1,795.8	18.9	400.4	400.4	106.5		1,020.7		3,342.5
1993	5,241.9	5,195.4	46.5	5.1	932.2	124.0		336.0		8,142.2
1994	4,125.3	4,051.2	72.3	6.8	1,226.9	165.4		439.4		6,428.9
1995	4,721.5	4,407.9	313.6	5.1	1,504.3	234.3		766.8		10,468.9
1996	21,254.3	12,120.5	9,133.8	671.9	18,406.8	3,357.9		17,439.3		67,391.3
1997	33,580.1	16,111.9	17,466.4	236.0	33,655.9	4,781.8		12,324.3		99,631.5
1998	29,571.9	10,956.1	18,615.8	453.2	37,965.6	4,080.5		3,436.0		90,555.1
1999	29,440.9	8,379.9	21,062.7	5,207.5	34,050.5	14,144.0		5,700.3		111,739.2
2000	18,943.0	5,669.3	13,273.6	6,731.3	28,815.7	14,029.8		13,220.4		103,056.6
2001	25,513.7	6,596.4	18,917.3	6,801.4	28,308.8	60.3		25,910.1		119,180.4
2002	21,202.3	3,806.5	17,395.7	5,488.4	40,178.2	15,865.5		13,213.5		117,830.0
2003	19,098.2	4,326.9	14,773.0	1,885.1	37,017.9	9,615.4		13,439.2		105,630.5
2004	23,362.9	5,439.0	17,923.9	1,012.1	40,927.7	6,308.6		18,530.5		118,471.6
2005	34,841.5	12,725.8	22,115.6	65.4	31,172.8	10,327.1		15,567.4		122,222.5
2006	33,118.3	8,864.1	24,254.1	585.8	50,670.8	17,530.1		24,445.4		144,738.6
2007	27,207.7	9,360.4	17,847.2	641.0	46,345.6	7,737.1		42,701.0		133,490.1
2008	25,406.2	11,135.8	14,270.4	1,866.2	65,411.2	23,144.7		62,283.5		178,786.3
2009	23,282.2	15,576.0	7,706.1	327.4	82,653.6	27,731.5		66,825.9		201,298.1

Source : Department of Energy Business
Compiled by : Energy Policy and Planning Office (EPPO)

Table 2.4-1Y
Demand and Supply of Crude Oil and Oil Products

Unit : Barrels/Day

Year	Crude Oil Balance			Oil Products				Oil Products					Demand
	Production	Import	Export	Throughput	Production	Import	Supply	Consumption	Mogas	Diesel Oil	Others	Export	
1986	34,304	145,335		174,169	183,904	45,050	228,954	231,709	39,098	98,860	93,750		231,709
1987	31,917	161,404		178,401	187,458	69,790	257,249	252,520	44,746	110,775	96,998		252,520
1988	37,099	154,906		184,185	194,912	91,542	286,454	286,767	50,230	125,185	111,352		286,767
1989	39,792	204,185		225,420	228,735	111,109	339,845	341,587	57,240	149,051	135,295	169	341,756
1990	43,238	210,001		240,803	250,755	158,052	408,808	411,876	63,533	171,080	177,262	415	412,291
1991	46,256	220,739		248,626	268,647	164,190	432,837	437,149	67,038	171,469	198,640	760	437,909
1992	52,846	277,501		305,631	343,165	161,172	504,338	485,489	74,496	177,929	233,063	10,240	495,730
1993	53,718	323,859		357,718	399,453	185,519	584,972	548,503	84,640	207,358	256,504	16,488	564,991
1994	57,167	372,885	683	414,020	449,449	180,554	630,004	605,282	96,347	228,993	279,940	11,831	617,113
1995	53,727	452,114	3,495	485,490	524,431	193,276	717,707	676,847	108,446	269,148	299,252	18,448	695,296
1996	62,057	633,170	8,212	659,005	692,378	157,980	850,358	749,315	118,886	306,349	324,078	77,036	826,351
1997	72,263	728,757	9,803	767,460	807,783	72,147	879,931	799,152	126,747	302,167	370,237	103,970	903,123
1998	75,760	679,728	10,281	721,808	761,043	29,991	791,035	727,514	123,525	263,391	340,597	93,930	821,445
1999	83,636	698,895	10,620	741,956	795,171	41,437	836,609	762,447	121,065	263,562	377,819	121,228	883,675
2000	110,157	673,133	36,885	749,629	822,770	78,960	901,730	741,781	116,198	257,322	368,260	122,707	864,489
2001	113,760	712,400	38,189	756,013	842,636	58,382	901,018	727,146	118,161	262,373	346,612	138,653	865,800
2002	129,291	728,532	51,411	827,688	855,821	68,800	924,622	758,288	126,242	277,037	355,007	135,555	893,844
2003	158,985	775,870	66,799	846,091	906,018	66,572	972,590	804,224	131,569	302,428	370,227	126,489	930,714
2004	153,719	869,924	58,400	925,850	930,528	78,228	1,008,757	857,237	131,648	337,236	388,352	140,161	997,399
2005	183,377	827,701	65,580	909,197	916,713	75,624	992,337	860,396	124,899	337,641	397,856	137,029	997,426
2006	204,199	829,300	65,441	925,497	939,220	65,462	1,004,682	847,874	124,331	316,570	406,972	171,896	1,019,770
2007	213,408	804,242	52,045	920,759	944,775	52,440	997,216	845,859	126,427	322,406	397,025	169,540	1,015,399
2008	229,455	813,784	45,988	927,967	959,915	39,087	999,003	807,978	122,703	304,024	381,250	211,288	1,019,267
2009	237,941	803,361	41,066	936,633	1,016,306	42,691	1,058,997	828,472	129,660	318,195	380,617	240,405	1,068,878

Source : Ministry of Commerce
Compiled by : Energy Policy and Planning Office (EPPO)



Table 2.4-2Y
Demand and Supply of LPG, Propane and Butane

Unit : Thousand Tons

Description	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997
Total Supply	639	677	751	852	1,007	1,085	1,273	1,478	1,455	1,743	2,110	2,513
- Production	582	554	605	477	727	981	1,272	1,434	1,369	1,702	2,031	2,511
GSP	445	405	438	287	520	778	965	1,043	915	978	1,070	1,170
Refinery	137	150	168	190	207	203	307	391	455	673	888	1,002
Others												
- Import	57	123	146	375	280	103	2	44	85	52	73	340
Total Demand	637	680	756	849	927	996	1,229	1,351	1,439	1,639	2,031	2,368
- Consumption	637	680	756	849	927	996	1,197	1,304	1,424	1,538	1,834	1,896
Cooking	388	459	582	666	717	717	787	864	953	1,056	1,171	1,225
Industry	62	71	79	95	108	125	156	176	206	235	262	275
Automobile	187	150	96	88	102	154	169	160	139	128	134	112
Feedstock							85	103	126	118	266	284
Own Used												
- Feedstock												
- Energy												
- Export							32	47	15	101	197	472
Balance (Supply-Demand)	2	-3	-5	3	81	88	45	126	16	104	80	145

Source : Department of Energy Business (DOEB)
Compiled by : Energy Policy and Planning Office (EPPO)

Table 2.4-2Y (Cont.)
Demand and Supply of LPG, Propane and Butane

Unit : Thousand Tons

Description	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
Total Supply	2,417	2,692	3,011	3,428	3,434	3,607	3,821	4,177	4,159	4,469	4,803	5,217
- Production	2,415	2,692	3,011	3,428	3,434	3,607	3,818	4,177	4,159	4,469	4,351	4,463
GSP	1,186	1,232	1,401	1,785	1,850	1,918	1,960	2,397	2,357	2,667	2,664	2,695
Refinery	924	1,083	1,283	1,480	1,421	1,478	1,650	1,581	1,585	1,567	1,684	1,766
Others	305	377	327	164	163	211	208	199	218	236	3	2
- Import	2						3				452	753
Total Demand	2,372	2,663	2,954	3,339	3,310	3,505	3,662	4,047	4,094	4,393	4,810	5,223
- Consumption	1,901	1,936	2,284	2,569	2,624	2,735	2,772	3,099	3,518	4,116	4,788	5,208
Cooking	1,130	1,206	1,348	1,430	1,468	1,502	1,513	1,604	1,721	1,884	2,124	2,231
Industry	266	314	313	335	399	435	441	450	511	602	658	586
Automobile	93	91	162	248	229	210	225	303	459	572	776	666
Feedstock	412	325	461	556	528	588	593	720	708	807	903	1,289
Own Used								22	119	251	328	435
- Feedstock								22	69	170	198	195
- Energy									49	81	130	240
- Export	472	727	670	770	686	770	890	948	576	278	21	15
Balance (Supply-Demand)	45	29	57	89	124	102	159	130	65	76	-6	-6

Source : Department of Energy Business (DOEB)
Compiled by : Energy Policy and Planning Office (EPPO)





Statistics
2010
Energy of Thailand

Chapter 3
NATURAL GAS

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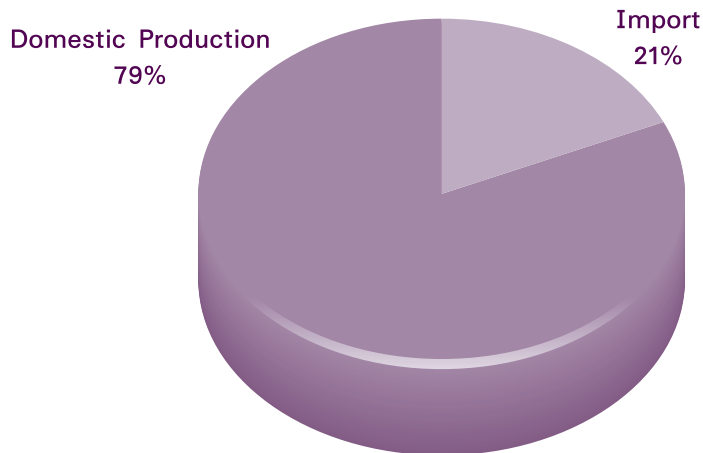
บทที่ 3
ก๊าซธรรมชาติ



บทที่ 3 ก๊าซธรรมชาติ

การจัดการก๊าซธรรมชาติ ประเทศไทยเริ่มผลิตก๊าซธรรมชาติในปี 1981 จากแหล่งเอราวัณ แต่ในปัจจุบันมีแหล่งก๊าซธรรมชาติที่สำคัญเพิ่มขึ้น ได้แก่ แหล่งบงกช เจดีเอ อาทิตย และไพลิน ในปี 2009 การผลิตในประเทศอยู่ที่ระดับ 2,990 ล้านลูกบาศก์ฟุตต่อวัน คิดเป็นสัดส่วนร้อยละ 79 ที่เหลือร้อยละ 21 นำเข้าจากประเทศพม่า รวมเป็นการจัดหาทั้งประเทศอยู่ที่ระดับ 3,794 ล้านลูกบาศก์ฟุตต่อวัน

Natural Gas Supply

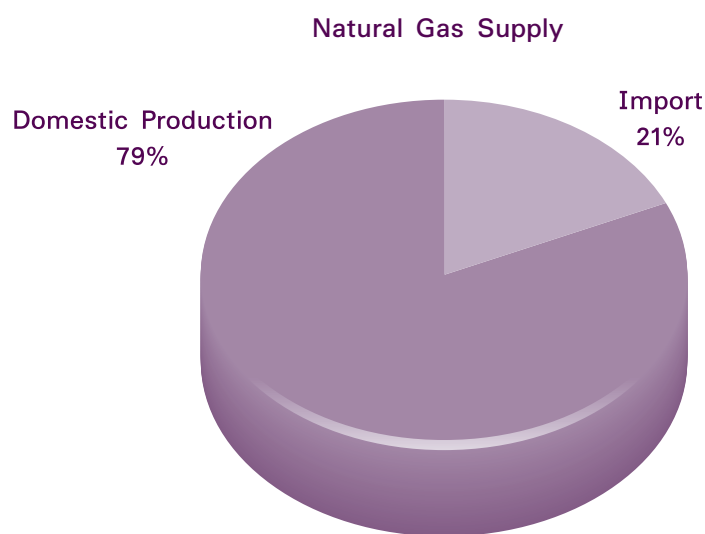


การใช้ก๊าซธรรมชาติ ก๊าซธรรมชาติจะถูกนำไปใช้ในการผลิตไฟฟ้ามากที่สุดร้อยละ 68 โรงแยกก๊าซ ร้อยละ 17 อุตสาหกรรมร้อยละ 11 และใช้ในการขนส่ง (CNG) ร้อยละ 4

Chapter 3 Natural Gas

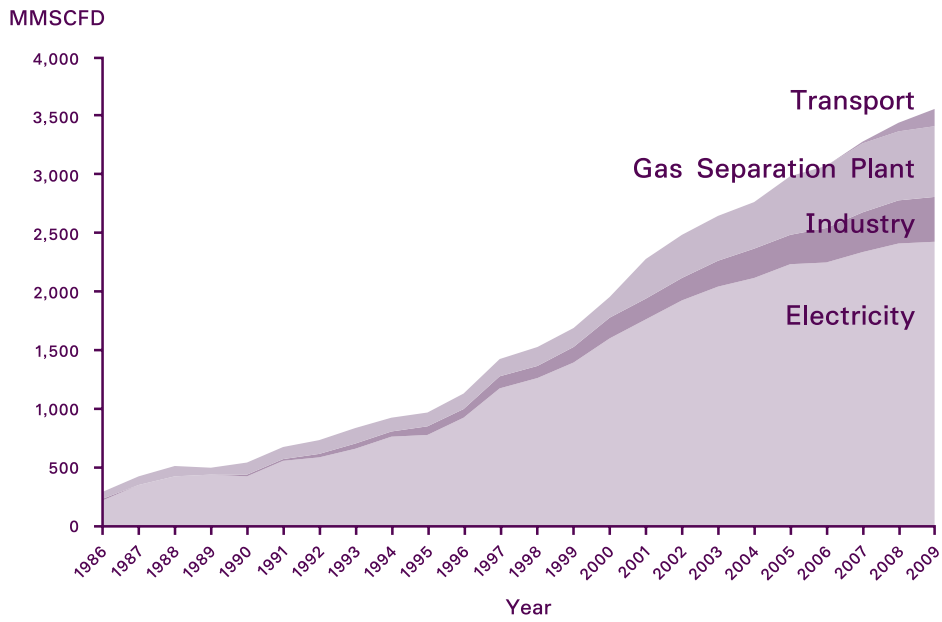


Natural Gas Supply. Natural gas production in Thailand began in 1981 from Erawan field; additional major gas fields have been discovered, comprising Bong Kot, JDA (Thailand-Malaysia Joint Development Area), Arthit and Pailin. In 2009, domestic production of natural gas was at a level of 2,990 million standard cubic feet per day (MMscfd), accounting for a share of 79%; the remaining 21% was imported from Myanmar, making a total natural gas supply of the country at 3,794 MMscfd.



Natural Gas Consumption. Natural gas was mainly used as fuel in power generation, holding a share of 68% of the total consumption in 2009. The remainder was used in the following: gas separation plants, at a share of 17%; industries, 11%; and transport (CNG), 4%.

Natural Gas Consumption by Sector



Share of Natural Gas Consumption 2009

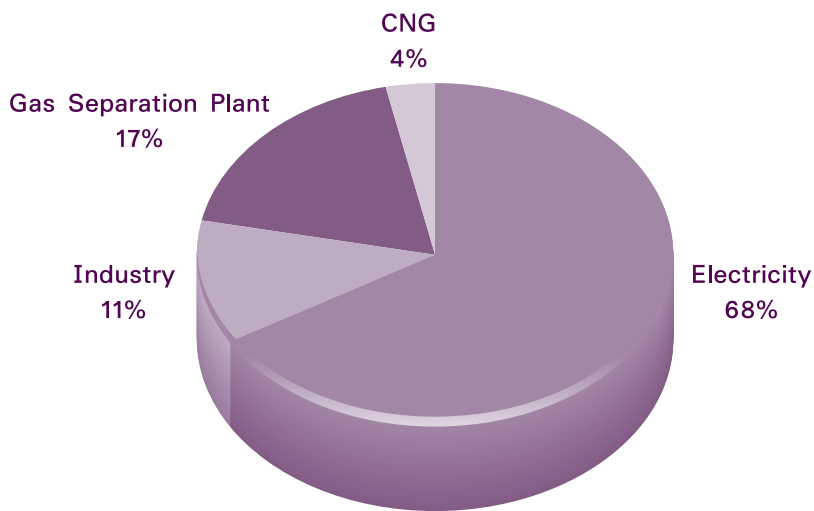


Table 3.1-1Y
Production and Import of Natural Gas

Unit : MMSCFD

Year	Strikit	Banjamas	Numphong	Erawan	Pailin	Satun	Gomin	Phuhorm	Funan & Jakrawan	Bongkot	Arthit	Yala	JDA	Others	Yadana	Yetakun	Total Import	Total Domestic	Grand Total
1986	29			162		89								70				350	350
1987	31			209		170								79				489	489
1988	30			216		197								134				578	578
1989	32			221		196								129				579	579
1990	41			231		201								158				631	631
1991	43		51	284		212								192				782	782
1992	50		57	253		206		128						138				832	832
1993	56		56	290		197		162	70					110				939	939
1994	65		63	267		198		160	202					82				1,038	1,038
1995	68		64	285		195	2	152	237					95				1,099	1,099
1996	60		65	268		203	49	160	336					126				1,267	1,267
1997	61		79	294		219	50	209	344					307				1,564	1,564
1998	55		90	299		211	25	246	437					335	2		2	1,698	1,700
1999	56	27	93	306	61	171	16	253	578					299	2		2	1,860	1,861
2000	59	97	71	278	234	125	24	208	548					304	128	36	164	1,948	2,113
2001	57	118	60	266	212	118	9	199	584					275	377	119	496	1,900	2,396
2002	56	152	59	266	298	114	9	228	566			11		229	418	199	617	1,986	2,603
2003	55	169	50	281	406	96	45	189	516			30		241	410	275	686	2,077	2,763
2004	54	147	35	274	412	104	64	187	597			24		259	439	287	726	2,158	2,884
2005	60	157	33	277	435	118	47	221	605			41		297	431	426	857	2,292	3,149
2006	50	159	31	278	438	90	27	263	627			41		343	452	417	869	2,353	3,222
2007	46	172	26	278	457	108	13	309	629	65	278	65	126	319	473	433	906	2,515	3,421
2008	41	147	23	275	431	101	14	85	286	604	278	100	126	268	434	394	828	2,778	3,606
2009	54	86	20	244	417	64	24	81	177	540	418	110	441	315	409	394	803	2,990	3,794

Remarks : Heat Value of NG from Myanmar = 1,000 BTU/SCF

Source : Department of Mineral Fuels (DMF)

Compiled by : Energy Policy and Planning Office (EPPO)

Table 3.2-1Y
Distribution of NGL

Year	(Million Litres)				(Barrels)				(Barrels/Day)			
	Export	Refinery	Solvent	Total	Export	Refinery	Solvent	Total	Export	Refinery	Solvent	Total
1988		131	6	138	826,823	39,455	866,279	2,259	107	2,366		
1989		75	4	79	470,285	25,025	495,310	1,288	68	1,357		
1990	5	133	2	140	836,226	11,708	878,376	83	2,291	32	2,406	
1991	85	113	12	211	712,688	74,725	1,324,883	1,472	1,952	204	3,629	
1992	152	47	20	219	295,856	125,815	1,375,281	2,605	808	343	3,757	
1993	140	73	31	244	461,695	195,308	1,536,452	2,409	1,264	535	4,209	
1994	67	113	43	223	711,359	273,465	1,404,672	1,150	1,948	749	3,848	
1995	96	94	37	227	588,716	234,949	1,426,026	1,650	1,612	643	3,906	
1996	33	165	57	255	1,040,130	358,172	1,603,903	561	2,841	978	4,382	
1997	153	28	154	335	175,920	968,882	2,106,618	2,635	481	2,654	5,771	
1998	178	18	164	360	1,118,416	1,031,602	2,263,330	3,064	310	2,826	6,200	
1999	199	27	171	396	1,249,394	169,719	2,492,177	3,423	464	2,939	6,827	
2000	149	23	331	503	146,385	2,079,331	3,163,893	2,563	399	5,681	8,644	
2001	106	55	395	556	343,469	2,482,794	3,495,640	1,833	941	6,802	9,577	
2002	57		489	546		3,077,307	3,436,219	983		8,430	9,414	
2003	49	107	486	642	310,746	675,638	4,040,954	851	1,851	8,368	11,071	
2004	79	116	429	624	499,812	728,529	3,923,764	1,365	1,990	7,364	10,720	
2005	176	6	543	724	1,106,817	34,611	4,556,531	3,032	94	9,356	12,483	
2006	129	57	547	733	808,290	359,473	4,609,614	2,214	984	9,429	12,629	
2007	133	6	650	789	834,411	38,387	4,962,810	2,286	105	11,205	13,596	
2008	142		672	814	894,079		4,226,379	2,442		11,547	13,990	
2009	114		676	790	717,208		4,253,688	1,964		11,653	13,618	

Source : PTT
Compiled by : Energy Policy and Planning Office (EPPO)

Table 3.2-2Y
Consumption of Natural Gas by Sector

Unit : MMSCFD

Year	Electricity				Industry	GSP	NGV	Grand Total
	EGAT	IPP	SPP	Total				
1986	246			246	10	71		326
1987	379			379	4	69		452
1988	452			452	7	74		532
1989	463			463	10	50		523
1990	452			452	17	97		567
1991	580			580	24	98		702
1992	612			612	34	113		759
1993	693			693	41	128		862
1994	783			783	54	117		954
1995	801			801	73	114		988
1996	888		60	948	78	122		1,148
1997	1,119		83	1,202	96	146		1,444
1998	1,152		140	1,291	92	158		1,542
1999	1,153	2	267	1,423	123	167		1,713
2000	1,244	71	305	1,620	181	175		1,976
2001	1,070	360	349	1,779	177	340		2,296
2002	1,075	486	375	1,936	198	361		2,495
2003	991	662	401	2,054	217	385		2,657
2004	994	723	418	2,134	248	389	3	2,774
2005	1,011	802	428	2,242	258	491	6	2,997
2006	1,016	825	417	2,257	291	527	11	3,086
2007	1,054	847	445	2,346	347	572	24	3,288
2008	1,014	968	441	2,423	361	583	77	3,444
2009	1,101	905	429	2,435	387	599	143	3,564

Remarks : Heat value of NG = 1,000 BTU/SCF
Compiled by : Energy Policy and Planning Office (EPPO)

Table 3.2-3Y
Consumption Share of Natural Gas by Sector

Year	MMSCFD					Share (%)				
	Electricity	Industry	GSP	NGV	Total	Electricity	Industry	GSP	NGV	Total
1986	246	10	71		326	75.3	3.0	21.8		100.0
1987	379	4	69		452	83.8	1.0	15.2		100.0
1988	452	7	74		532	84.9	1.3	13.8		100.0
1989	463	10	50		523	88.6	1.8	9.6		100.0
1990	452	17	97		567	79.8	3.1	17.1		100.0
1991	580	24	98		702	82.5	3.5	14.0		100.0
1992	612	34	113		759	80.6	4.4	14.9		100.0
1993	693	41	128		862	80.4	4.7	14.8		100.0
1994	783	54	117		954	82.1	5.6	12.3		100.0
1995	801	73	114		988	81.1	7.4	11.6		100.0
1996	948	78	122		1,148	82.5	6.8	10.7		100.0
1997	1,202	96	146		1,444	83.2	6.7	10.1		100.0
1998	1,291	92	158		1,542	83.8	6.0	10.3		100.0
1999	1,423	123	167		1,713	83.1	7.2	9.8		100.0
2000	1,620	181	175		1,976	82.0	9.2	8.9		100.0
2001	1,779	177	340		2,296	77.5	7.7	14.8		100.0
2002	1,936	198	361		2,495	77.6	8.0	14.4		100.0
2003	2,054	217	385		2,657	77.3	8.2	14.5		100.0
2004	2,134	248	389	3	2,774	76.9	8.9	14.0	0.1	100.0
2005	2,242	258	491	6	2,997	74.8	8.6	16.4	0.2	100.0
2006	2,257	291	527	11	3,086	73.2	9.4	17.1	0.4	100.0
2007	2,346	347	572	24	3,288	71.3	10.6	17.4	0.7	100.0
2008	2,423	361	583	77	3,444	70.4	10.5	16.9	2.2	100.0
2009	2,435	387	599	143	3,564	68.3	10.9	16.8	4.0	100.0

Remark : Heat value of NG = 1,000 BTU/SCF

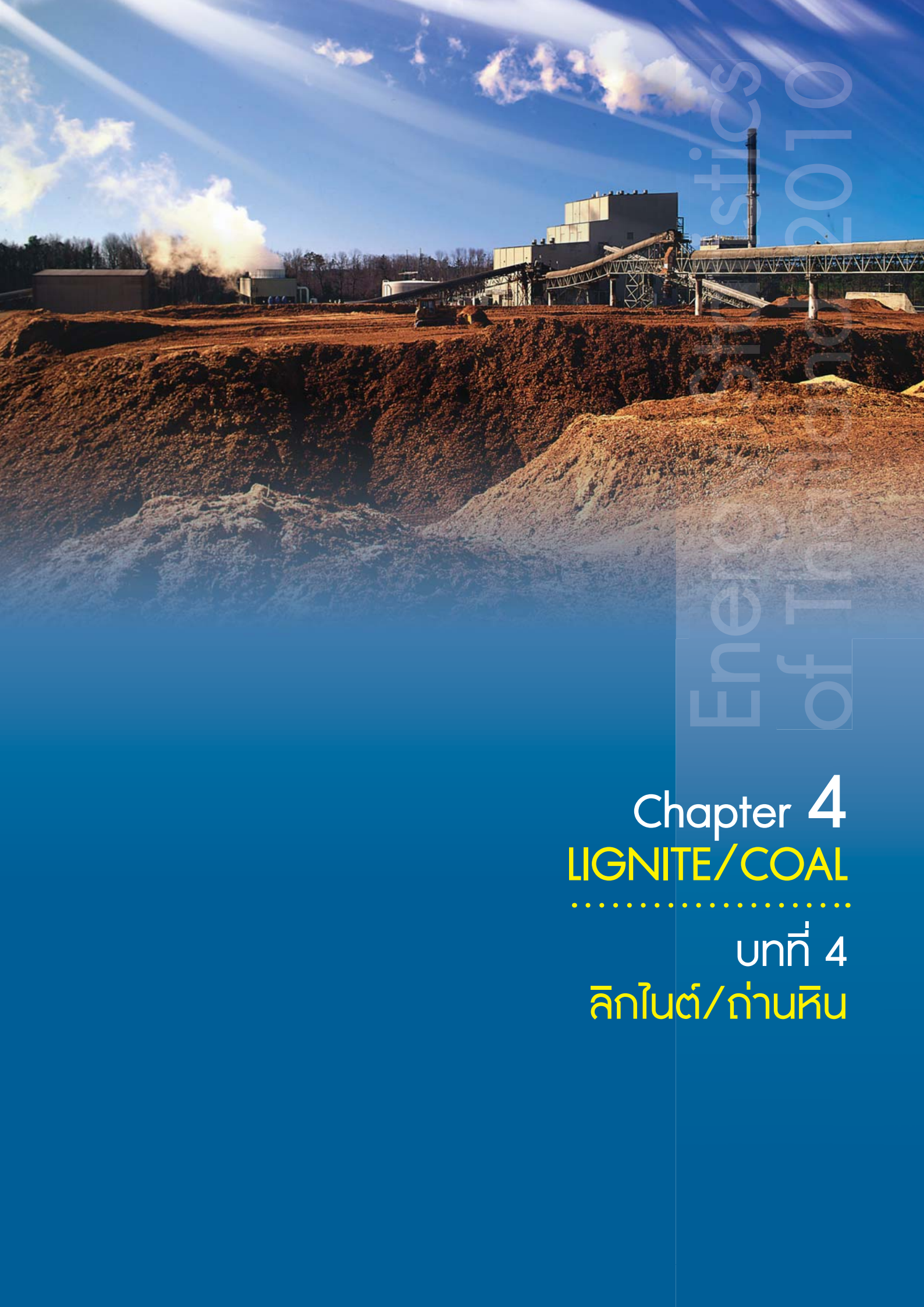
Compiled by : Energy Policy and Planning Office (EPPO)

Table 3.2-4
Consumption of Compressed Natural Gas (CNG)

Month	Vehicle (Unit)			Consumption (MMSCF)				Petroleum Equivalent (Million Liters)		
	Gasoline	Diesel	Total	Gasoline	Diesel	Total	MMSCFD	Gasoline	Diesel	Total
2006	21,170	2,326	23,496	2,546.9	1,399.1	3,946.0	10.8	79.9	38.0	117.9
Jan	6,755	679	7,434	185.7	93.3	279.0	9.0	5.8	2.5	8.3
Feb	7,362	756	8,118	148.0	76.0	224.0	8.0	4.6	2.1	6.7
Mar	7,806	821	8,627	182.8	96.2	279.0	9.0	5.7	2.6	8.3
Apr	8,436	895	9,331	156.8	83.2	240.0	8.0	4.9	2.3	7.1
May	9,336	1,019	10,355	200.6	109.4	310.0	10.0	6.2	3.0	9.2
Jun	10,663	1,164	11,827	194.1	105.9	300.0	10.0	6.0	2.9	8.9
Jul	12,194	1,340	13,534	200.1	109.9	310.0	10.0	6.2	3.0	9.2
Aug	14,786	1,611	16,397	260.9	142.1	403.0	13.0	8.1	3.9	12.0
Sep	16,975	1,863	18,838	232.4	127.6	360.0	12.0	7.2	3.5	10.7
Oct	18,403	2,068	20,471	277.9	156.1	434.0	14.0	8.6	4.3	12.9
Nov	19,587	2,215	21,802	268.3	151.7	420.0	14.0	8.3	4.1	12.5
Dec	21,170	2,326	23,496	260.1	142.9	403.0	13.0	8.1	3.9	12.0
2007	49,335	6,533	55,868	5,166.3	3,420.7	8,587.0	23.5	168.2	86.6	254.9
Jan	24,306	2,679	26,985	279.8	154.2	434.0	14.0	8.7	4.2	12.9
Feb	25,770	2,836	28,606	292.9	161.1	454.0	16.2	9.1	4.4	13.5
Mar	27,788	3,029	30,817	367.0	200.0	567.0	18.3	11.4	5.4	16.9
Apr	28,832	3,180	32,012	364.8	201.2	566.0	18.9	11.4	5.5	16.8
May	29,971	3,344	33,315	387.7	216.3	604.0	19.5	12.1	5.9	18.0
Jun	32,536	3,680	36,216	411.4	232.6	644.0	21.5	12.8	6.3	19.1
Jul	34,437	3,914	38,351	443.2	251.8	695.0	22.4	13.8	6.9	20.6
Aug	37,215	4,293	41,508	483.9	279.1	763.0	24.6	15.1	7.6	22.7
Sep	40,045	4,612	44,657	510.8	294.2	805.0	26.8	15.9	8.0	23.9
Oct	42,769	5,262	48,031	568.4	349.6	918.0	29.6	17.7	9.5	27.2
Nov	46,072	5,846	51,918	616.1	390.9	1,007.0	33.6	19.2	10.6	29.8
Dec	49,335	6,533	55,868	679.9	450.1	1,130.0	36.5	21.2	12.3	33.4

Table 3.2-4 (Cont.)
Consumption of Compressed Natural Gas (CNG)

Month	Vehicle (Unit)			Consumption (MMSCF)				Petroleum Equivalent (Million Liters)		
	Gasoline	Diesel	Total	Gasoline	Diesel	Total	MMSCFD	Gasoline	Diesel	Total
2008	104,553	23,182	127,735	13,415.9	14,873.1	28,289.0	77.0	444.7	381.2	825.9
Jan	53,542	6,873	60,415	776.0	498.0	1,274.0	41.1	24.1	13.6	37.7
Feb	57,666	7,603	65,269	814.8	537.2	1,352.0	46.6	25.4	14.6	40.0
Mar	60,272	8,853	69,125	923.1	677.9	1,601.0	51.6	28.7	18.5	47.2
Apr	63,016	9,903	72,919	954.8	750.2	1,705.0	56.8	29.7	20.4	50.1
May	66,245	11,265	77,510	1,052.3	894.7	1,947.0	62.8	32.7	24.4	57.1
Jun	70,914	13,247	84,161	1,114.8	1,041.2	2,156.0	71.9	34.7	28.4	63.0
Jul	78,099	16,233	94,332	1,262.7	1,312.3	2,575.0	83.1	39.3	35.7	75.0
Aug	85,307	18,470	103,777	1,363.2	1,475.8	2,839.0	91.6	42.4	40.2	82.6
Sep	91,999	20,655	112,654	1,383.7	1,553.3	2,937.0	97.9	43.1	42.3	85.4
Oct	96,097	22,031	118,128	1,539.9	1,765.1	3,305.0	106.6	47.9	48.1	96.0
Nov	99,764	22,812	122,576	1,513.6	1,730.4	3,244.0	108.1	47.1	47.1	94.2
Dec	104,553	23,182	127,735	1,590.6	1,763.4	3,354.0	108.2	49.5	48.0	97.5
2009	133,777	28,246	162,023	25,338.2	26,749.8	52,088.0	142.7	796.9	721.2	1,518.0
Jan	107,932	23,503	131,435	1,731.6	1,885.4	3,617.0	116.7	53.9	51.3	105.2
Feb	116,299	23,726	140,025	1,837.1	1,873.9	3,711.0	132.5	57.2	51.0	108.2
Mar	117,348	23,987	141,335	2,111.7	2,158.3	4,270.0	137.7	65.7	58.8	124.5
Apr	118,350	24,142	142,492	1,870.4	1,907.6	3,778.0	125.9	58.2	51.9	110.2
May	119,543	24,324	143,867	2,051.2	2,086.8	4,138.0	133.5	63.8	56.8	120.7
Jun	121,925	24,716	146,641	2,108.2	2,136.8	4,245.0	141.5	65.6	58.2	123.8
Jul	124,252	25,213	149,465	2,194.5	2,226.5	4,421.0	142.6	68.3	60.6	128.9
Aug	126,161	25,777	151,938	2,295.7	2,345.3	4,641.0	149.7	71.4	63.9	135.3
Sep	128,284	26,330	154,614	2,231.7	2,290.3	4,522.0	150.7	69.5	62.4	131.8
Oct	128,924	27,278	156,202	2,322.3	2,456.7	4,779.0	154.2	72.3	66.9	139.2
Nov	132,183	27,835	160,018	2,325.5	2,448.5	4,774.0	159.1	72.4	66.7	139.0
Dec	133,777	28,246	162,023	2,525.6	2,666.4	5,192.0	167.5	78.6	72.6	151.2



Energy of Thailand 2010

Chapter 4
LIGNITE/COAL

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บทที่ 4
ลิกไนต์/ถ่านหิน

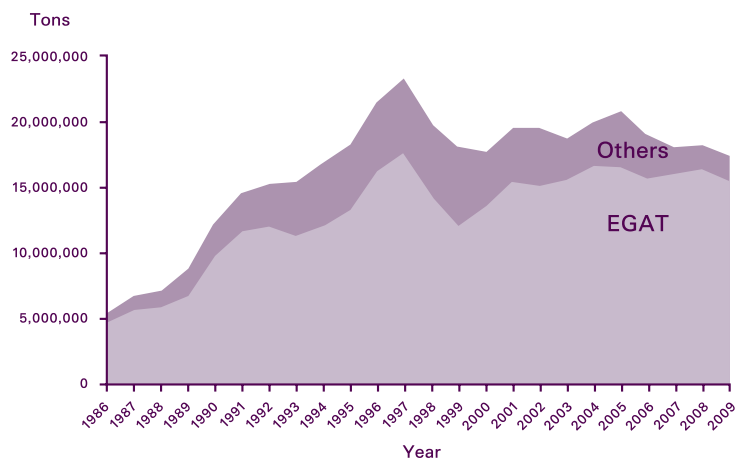


บทที่ 4 ลิกไนต์/ถ่านหิน

การผลิตลิกไนต์ในประเทศไทย ผลิตได้จาก 2 แหล่งหลัก คือ เหมืองของการไฟฟ้าฝ่ายผลิตแห่งประเทศไทย (กฟผ.) และเหมืองของบริษัทเอกชน โดยเหมืองของการไฟฟ้าฝ่ายผลิตแห่งประเทศไทย (กฟผ.) ประกอบด้วยการผลิตจากเหมืองแม่เมาะ จังหวัดลำปาง และจากเหมืองกระบี่ จังหวัดกระบี่ ทั้งนี้ ลิกไนต์ที่ผลิตได้จากเหมืองแม่เมาะทั้งหมดจะถูกนำไปใช้ในการผลิตไฟฟ้าของโรงไฟฟ้าแม่เมาะ ส่วนลิกไนต์ที่ผลิตได้จากเหมืองกระบี่จะถูกนำไปใช้ในภาคอุตสาหกรรม ทั้งนี้เหมืองกระบี่ได้หยุดการผลิตในปี 2008

การผลิตลิกไนต์จากเหมืองของบริษัทเอกชน ปัจจุบันเริ่มชะลอลงเนื่องจากแหล่งสัมปทานแหล่งใหญ่ภายในประเทศทยอยหมดลง โดยลิกไนต์ที่ผลิตได้จากเหมืองเอกชนส่วนใหญ่ใช้ในอุตสาหกรรม เช่น ซีเมนต์ กระดาษ อาหาร และสิ่งทอ เป็นต้น

Production of Lignite



การใช้ลิกไนต์และถ่านหิน ในปี 2009 มีสัดส่วนการใช้ถ่านหิน/ลิกไนต์เป็นเชื้อเพลิงในการผลิตไฟฟ้าและภาคอุตสาหกรรมใกล้เคียงกัน (คิดจากค่าความร้อน) โดยภาคอุตสาหกรรมนำไปใช้ในอุตสาหกรรมที่ใช้หม้อน้ำเป็นหลัก เพื่อทดแทนน้ำมันเตาที่มีราคาสูง

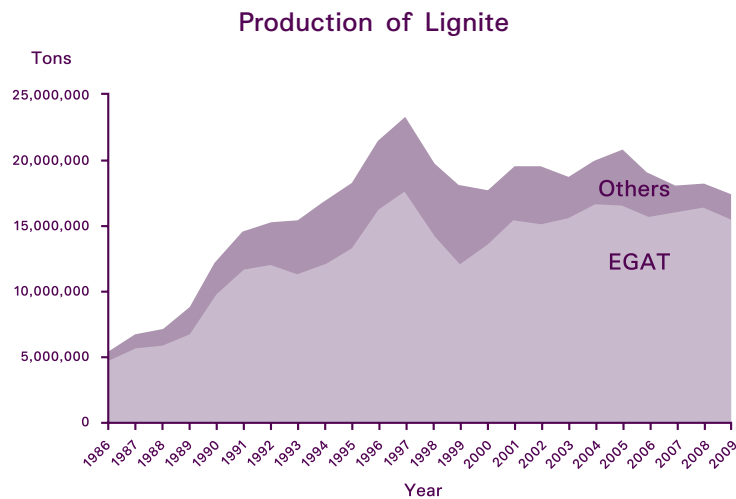
ในปี 2009 มีการใช้ลิกไนต์ในการผลิตไฟฟ้าคิดเป็นสัดส่วนร้อยละ 80 ที่เหลืออีกร้อยละ 20 ใช้ในภาคอุตสาหกรรม ส่วนถ่านหินใช้เป็นเชื้อเพลิงในการผลิตไฟฟ้าของ IPP ร้อยละ 22 SPP ร้อยละ 13 และใช้เป็นเชื้อเพลิงในภาคอุตสาหกรรมร้อยละ 65

Chapter 4 Lignite/Coal



Domestic Lignite Production. Domestic lignite production came from two major sources, one belonged to the Electricity Generating Authority of Thailand (EGAT) and the other to private producers. EGAT's source comprised the production from Mae Moh mine in Lampang province (in northern Thailand) and Krabi mine in Krabi province (in the South of the country). Lignite produced from Mae Moh mine would be entirely used as fuel for power generation at Mae Moh Power Plant while that from Krabi mine would serve the demand in the industrial sector. However, the production at Krabi mine had diminished substantially in output and was eventually discontinued in 2008.

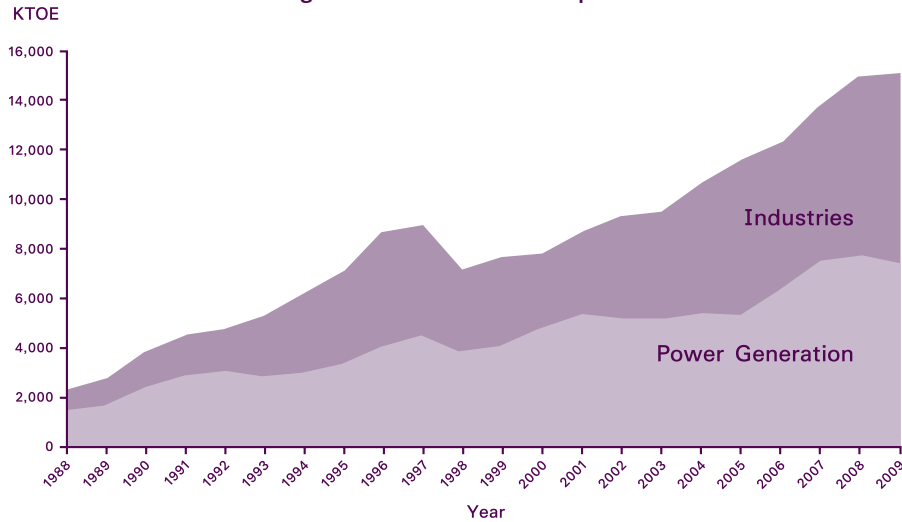
As for lignite production from the mines of private producers, the production volume gradually dropped off because major domestic lignite concessions expired one after another. Most of the lignite produced from private sector mines was used in such industries as cement, paper, food and textile.



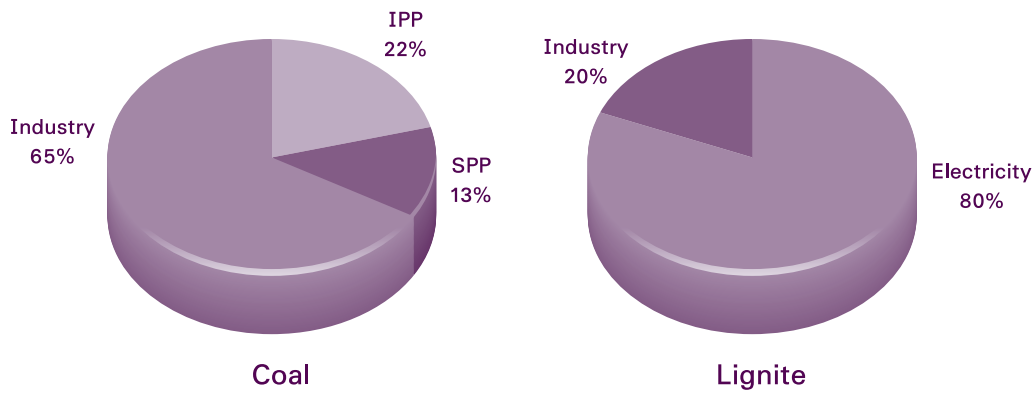
Lignite and Coal Consumption. In 2009, the share of coal/lignite consumption as fuel in the power generation sector was almost at the same level as that in the industrial sector (based on the calorific value). Coal demand in the industrial sector was growing, mainly by industries using boilers, to replace the use of fuel oil of which the price had much increased.

Lignite was mainly used for power generation, accounting for a share of 80%; the remaining 20% was used in the industrial sector. As for coal, 22% was used as fuel in power generation by Independent Power Producers (IPP), 13% by Small Power Producers (SPP); and 65% was used as fuel in the industrial sector.

Lignite & Coal Consumption

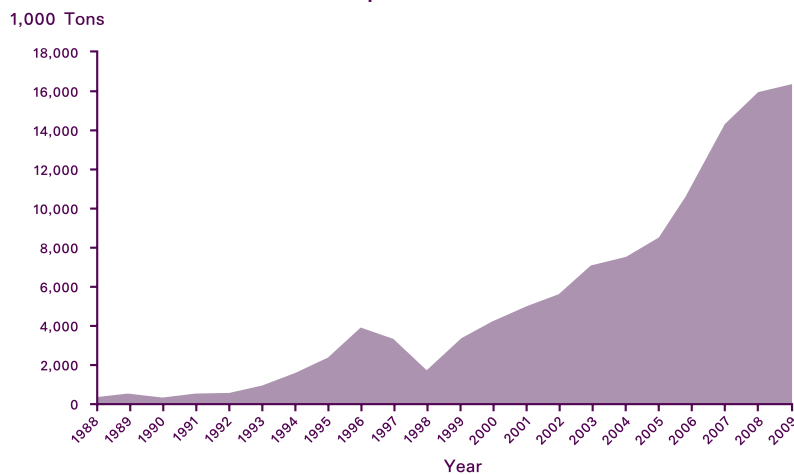


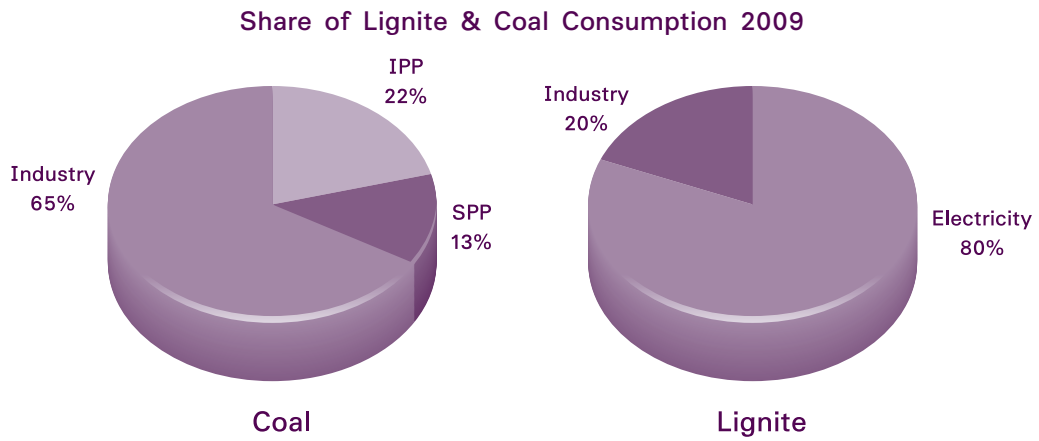
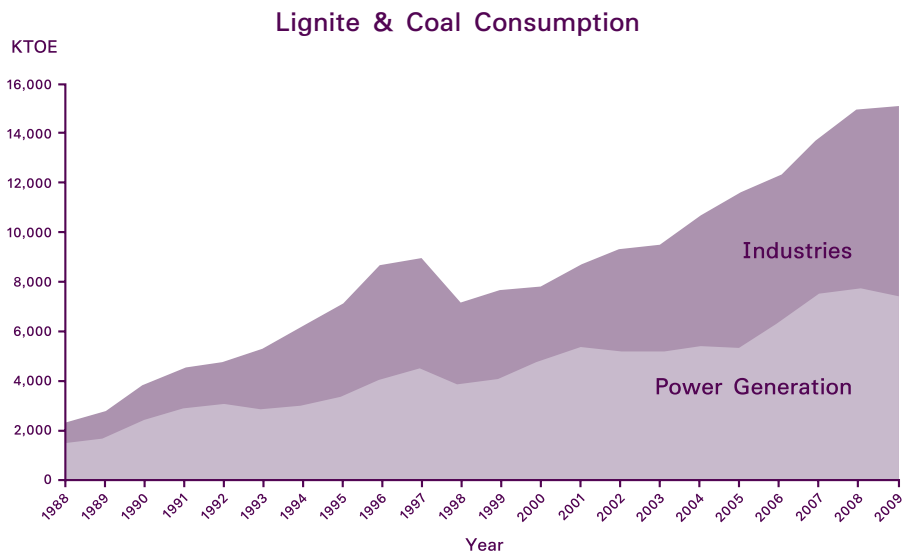
Share of Lignite & Coal Consumption 2009



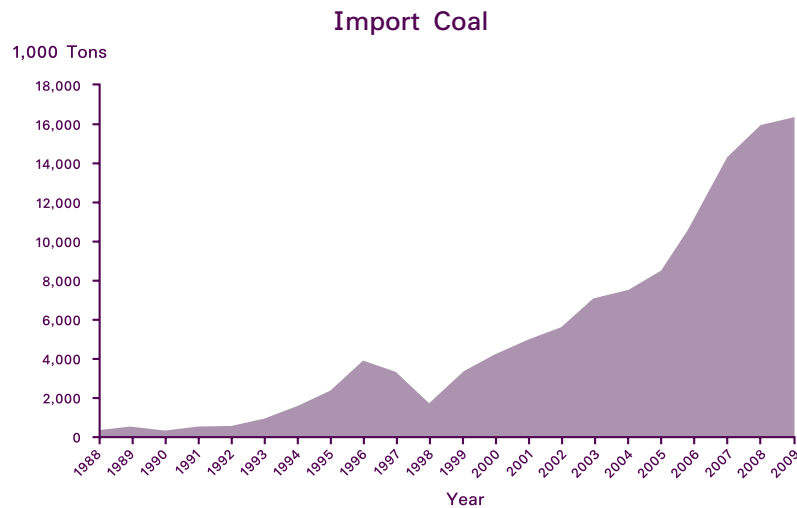
การนำเข้าถ่านหิน ถ่านหินนำเข้าที่ใช้ในประเทศส่วนใหญ่เป็นถ่านหินประเภท Sub-Bituminous และ Bituminous มีเพียงเล็กน้อยที่เป็นถ่านหินประเภท Anthracite และ Briquettes โดยถ่านหินนำเข้า (Sub-Bituminous) จะมีค่าความร้อนตั้งแต่ 5,000-6,000 กิโลแคลอรี/กิโลกรัม ทั้งนี้ปริมาณการนำเข้าถ่านหินมีแนวโน้มเพิ่มขึ้นอย่างต่อเนื่อง สาเหตุจากแหล่งสัมปทานลิกไนต์ภายในประเทศทยอยหมดและราคาถ่านหินถูกกว่าเมื่อเทียบกับพลังงานชนิดอื่น

Import Coal





Coal Import. Most of imported coal used in Thailand is of sub-bituminous and bituminous categories; only a small amount is of anthracite and briquette categories. The calorific or heating value of imported coal (sub-bituminous) will be in a range of 5,000-6,000 kilocalories per kilogram (kcal/kg). The amount of coal import increased continuously because domestic lignite concessions came to expiry one after another and because the price of coal was cheaper when compared with other energy types.



Unit : Tons

Table 4.1-1Y
Production and Consumption of Lignite

Year	Mae-Moh		Krabi		Total EGAT		Others		Nationwide	
	Production	Consumption	Production	Consumption	Production	Consumption	Production	Consumption	Production	Consumption
1986	4,551,921	4,084,232	212,000	221,552	4,763,921	4,305,784	774,163	734,351	5,538,084	5,040,135
1987	5,564,537	6,061,426	191,000	183,695	5,755,537	6,245,120	1,175,721	1,056,771	6,931,257	7,301,891
1988	5,717,250	5,681,773	237,396	213,979	5,954,646	5,895,752	1,340,413	1,316,064	7,295,059	7,211,816
1989	6,541,191	6,545,093	318,585	219,113	6,859,776	6,764,205	2,150,146	1,799,380	9,009,922	8,563,586
1990	9,652,991	9,619,614	156,262	255,710	9,809,254	9,875,324	2,629,219	2,600,686	12,438,473	12,476,010
1991	11,513,775	11,504,708	242,699	219,983	11,756,475	11,724,691	2,889,540	2,934,445	14,646,015	14,659,135
1992	11,844,352	12,129,274	253,950	241,265	12,098,302	12,370,539	3,290,259	3,193,113	15,388,561	15,563,652
1993	11,221,088	11,239,942	211,800	249,845	11,432,888	11,489,787	4,105,039	4,222,966	15,537,927	15,712,753
1994	11,906,553	11,908,173	225,065	247,711	12,131,618	12,155,884	4,963,253	4,897,708	17,094,871	17,053,592
1995	13,191,880	13,374,488	144,232	193,006	13,336,112	13,567,494	5,084,686	4,939,136	18,420,798	18,506,630
1996	16,381,301	16,405,340			16,381,301	16,405,340	5,309,093	4,688,467	21,690,394	21,093,807
1997	17,692,415	18,010,806			17,692,415	18,010,806	5,746,141	5,235,659	23,438,556	23,246,465
1998	14,419,327	15,388,095			14,419,327	15,388,095	5,576,868	5,029,499	19,996,195	20,417,594
1999	12,021,265	13,893,584			12,021,265	13,893,584	6,240,043	4,610,512	18,261,308	18,504,096
2000	13,621,615	14,120,569	30,000		13,651,615	14,120,569	4,134,132	3,722,528	17,785,747	17,843,097
2001	15,314,436	15,744,116	133,000		15,447,436	15,744,116	4,159,559	3,753,746	19,606,995	19,497,862
2002	14,994,739	15,035,329	187,000		15,181,739	15,035,329	4,420,245	4,503,816	19,601,984	19,539,145
2003	15,591,841	15,406,532	146,000		15,737,841	15,406,532	3,105,554	2,753,089	18,843,395	18,159,621
2004	16,561,572	16,536,694	95,868		16,657,440	16,536,694	3,402,404	4,006,701	20,059,844	20,543,395
2005	16,534,142	16,571,091	36,522		16,570,664	16,571,091	4,307,512	4,475,747	20,878,176	21,046,838
2006	15,763,798	15,815,374	56,000		15,819,798	15,815,374	3,250,810	3,036,746	19,070,608	18,852,120
2007	16,117,809	15,811,050	27,112		16,144,921	15,811,050	2,094,255	2,159,379	18,239,176	17,970,429
2008	16,420,847	16,407,465	23,248		16,444,095	16,407,465	1,842,390	2,124,087	18,286,485	18,531,552
2009	15,631,766	15,818,265			15,631,766	15,818,265	1,934,334	2,042,529	17,566,100	17,860,794

Source : Department of Primary Industries and Mines

Table 4.1-2Y
Consumption of Lignite and Coal Classified by Sector

Unit : KTOE

Year	Coal			Lignite			Coal and Lignite			
	IPP	SPP	Industry	Total	EGAT	Industry	Total	Electricity	Industry	Total
1986			138	138	1,067	350	1,417	1,067	489	1,555
1987			194	194	1,547	504	2,051	1,547	699	2,245
1988			225	225	1,460	628	2,088	1,460	853	2,314
1989			284	284	1,675	858	2,534	1,675	1,142	2,818
1990			213	213	2,446	1,241	3,687	2,446	1,453	3,899
1991			293	293	2,937	1,337	4,274	2,937	1,630	4,567
1992			313	313	3,077	1,498	4,575	3,077	1,811	4,888
1993			584	584	2,846	2,014	4,860	2,846	2,598	5,444
1994			948	948	3,011	2,336	5,347	3,011	3,284	6,296
1995		7	1,458	1,465	3,361	2,356	5,717	3,368	3,814	7,182
1996		41	2,397	2,438	4,064	2,236	6,300	4,105	4,633	8,738
1997		57	1,995	2,053	4,461	2,497	6,959	4,519	4,493	9,012
1998		65	954	1,019	3,812	2,399	6,211	3,877	3,353	7,230
1999		670	1,376	2,046	3,441	2,199	5,641	4,111	3,576	7,687
2000		1,330	1,282	2,611	3,498	1,776	5,273	4,827	3,057	7,884
2001		1,462	1,625	3,087	3,900	1,791	5,690	5,362	3,415	8,777
2002		1,499	1,995	3,495	3,724	2,148	5,873	5,224	4,144	9,367
2003		1,389	3,049	4,438	3,816	1,313	5,129	5,205	4,362	9,568
2004		1,370	3,343	4,713	4,096	1,911	6,007	5,466	5,254	10,720
2005		1,294	4,054	5,348	4,105	2,135	6,240	5,399	6,189	11,587
2006	922	1,544	4,535	7,000	3,917	1,449	5,366	6,383	5,983	12,366
2007	2,308	1,280	5,409	8,997	3,916	1,030	4,946	7,504	6,439	13,943
2008	2,305	1,399	6,270	9,974	4,064	1,013	5,077	7,768	7,283	15,051
2009	2,276	1,296	6,657	10,230	3,918	974	4,892	7,491	7,631	15,122
Fuel Share (%)										
1986			8.9	8.9	68.6	22.5	91.1	68.6	31.4	100.0
1987			8.7	8.7	68.9	22.5	91.3	68.9	31.1	100.0
1988			9.7	9.7	63.1	27.1	90.3	63.1	36.9	100.0
1989			10.1	10.1	59.5	30.5	89.9	59.5	40.5	100.0
1990			5.5	5.5	62.7	31.8	94.5	62.7	37.3	100.0
1991			6.4	6.4	64.3	29.3	93.6	64.3	35.7	100.0
1992			6.4	6.4	63.0	30.7	93.6	63.0	37.0	100.0
1993			10.7	10.7	52.3	37.0	89.3	52.3	47.7	100.0
1994			15.1	15.1	47.8	37.1	84.9	47.8	52.2	100.0
1995		0.1	20.3	20.4	46.8	32.8	79.6	46.9	53.1	100.0
1996		0.5	27.4	27.9	46.5	25.6	72.1	47.0	53.0	100.0
1997		0.6	22.1	22.8	49.5	27.7	77.2	50.1	49.9	100.0
1998		0.9	13.2	14.1	52.7	33.2	85.9	53.6	46.4	100.0
1999		8.7	17.9	26.6	44.8	28.6	73.4	53.5	46.5	100.0
2000		16.9	16.3	33.1	44.4	22.5	66.9	61.2	38.8	100.0
2001		16.7	18.5	35.2	44.4	20.4	64.8	61.1	38.9	100.0
2002		16.0	21.3	37.3	39.8	22.9	62.7	55.8	44.2	100.0
2003		14.5	31.9	46.4	39.9	13.7	53.6	54.4	45.6	100.0
2004		12.8	31.2	44.0	38.2	17.8	56.0	51.0	49.0	100.0
2005		11.2	35.0	46.2	35.4	18.4	53.9	46.6	53.4	100.0
2006	7.5	12.5	36.7	56.6	31.7	11.7	43.4	51.6	48.4	100.0
2007	16.6	9.2	38.8	64.5	28.1	7.4	35.5	53.8	46.2	100.0
2008	15.3	9.3	41.7	66.3	27.0	6.7	33.7	51.6	48.4	100.0
2009	15.1	8.6	44.0	67.7	25.9	6.4	32.4	49.5	50.5	100.0
Growth Rate (%)										
1987			40.5	40.5	45.0	43.9	44.8	45.0	42.9	44.4
1988			15.9	15.9	-5.6	24.5	1.8	-5.6	22.1	3.0
1989			26.0	26.0	14.7	36.7	21.3	14.7	33.9	21.8
1990			-25.1	-25.1	46.0	44.5	45.5	46.0	27.2	38.4
1991			37.7	37.7	20.1	7.8	15.9	20.1	12.2	17.1
1992			6.7	6.7	4.8	12.0	7.1	4.8	11.1	7.0
1993			86.8	86.8	-7.5	34.5	6.2	-7.5	43.5	11.4
1994			62.4	62.4	5.8	16.0	10.0	5.8	26.4	15.6
1995			53.7	54.5	11.6	0.9	6.9	11.9	16.1	14.1
1996		466.9	64.4	66.4	20.9	-5.1	10.2	21.9	21.5	21.7
1997		38.9	-16.7	-15.8	9.8	11.7	10.5	10.1	-3.0	3.1
1998		13.9	-52.2	-50.4	-14.6	-3.9	-10.8	-14.2	-25.4	-19.8
1999		923.1	44.3	100.7	-9.7	-8.3	-9.2	6.0	6.6	6.3
2000		98.5	-6.9	27.6	1.6	-19.3	-6.5	17.4	-14.5	2.6
2001		10.0	26.8	18.2	11.5	0.8	7.9	11.1	11.7	11.3
2002		2.6	22.8	13.2	-4.5	20.0	3.2	-2.6	21.3	6.7
2003		-7.4	52.8	27.0	2.5	-38.9	-12.7	-0.4	5.3	2.1
2004		-1.4	9.6	6.2	7.3	45.5	17.1	5.0	20.4	12.0
2005		-5.5	21.3	13.5	0.2	11.7	3.9	-1.2	17.8	8.1
2006		19.3	11.9	30.9	-4.6	-32.2	-14.0	18.2	-3.3	6.7
2007	150.4	-17.1	19.3	28.5	0.0	-28.9	-7.8	17.6	7.6	12.8
2008	-0.1	9.3	15.9	10.9	3.8	-1.6	2.7	3.5	13.1	8.0
2009	-1.2	-7.3	6.2	2.6	-3.6	-3.8	-3.6	-3.6	4.8	0.5

Remarks IPP : Independent Power Producers
SPP : Small Power Producers
EGAT : Electricity Generating Authority of Thailand

Table 4.1-3Y
Consumption of Lignite and Coal Classified by Sector

Unit : 1,000 Tons

Year	Coal				Lignite			Coal and Lignite		
	IPP	SPP	Industry	Total	EGAT	Industry	Total	Electricity	Industry	Total
1986			222	222	4,306	734	5,040	4,306	956	5,262
1987			312	312	6,245	1,057	7,302	6,245	1,368	7,613
1988			361	361	5,896	1,316	7,212	5,896	1,677	7,573
1989			455	455	6,764	1,799	8,564	6,764	2,254	9,019
1990			341	341	9,875	2,601	12,476	9,875	2,942	12,817
1991			470	470	11,856	2,804	14,659	11,856	3,273	15,129
1992			501	501	12,423	3,141	15,564	12,423	3,641	16,065
1993			936	936	11,490	4,223	15,713	11,490	5,159	16,649
1994			1,519	1,519	12,156	4,898	17,054	12,156	6,417	18,573
1995		12	2,335	2,347	13,567	4,939	18,507	13,579	7,275	20,854
1996		66	3,840	3,906	16,405	4,688	21,094	16,472	8,528	25,000
1997		92	3,197	3,289	18,011	5,236	23,246	18,103	8,432	26,535
1998		105	1,528	1,633	15,388	5,030	20,418	15,493	6,558	22,051
1999		1,073	2,205	3,278	13,894	4,611	18,504	14,966	6,816	21,782
2000		2,130	2,053	4,183	14,121	3,723	17,843	16,251	5,776	22,026
2001		2,342	2,603	4,945	15,744	3,754	19,498	18,086	6,357	24,443
2002		2,402	3,197	5,599	15,035	4,504	19,539	17,438	7,700	25,138
2003		2,225	4,885	7,110	15,407	2,753	18,160	17,632	7,638	25,270
2004		2,194	5,356	7,550	16,537	4,007	20,543	18,731	9,363	28,093
2005		2,073	6,495	8,568	16,571	4,476	21,047	18,644	10,971	29,615
2006	1,476	2,473	7,265	11,215	15,815	3,037	18,852	19,765	10,302	30,067
2007	3,697	2,051	8,665	14,414	15,811	2,159	17,970	21,559	10,825	32,384
2008	3,692	2,241	10,045	15,979	16,407	2,124	18,532	22,341	12,169	34,511
2009	3,647	2,077	10,665	16,389	15,818	2,043	17,861	21,542	12,708	34,250
Fuel Share (%)										
1986			4.2	4.2	81.8	14.0	95.8	81.8	18.2	100.0
1987			4.1	4.1	82.0	13.9	95.9	82.0	18.0	100.0
1988			4.8	4.8	77.9	17.4	95.2	77.9	22.2	100.0
1989			5.1	5.1	75.0	20.0	95.0	75.0	25.0	100.0
1990			2.7	2.7	77.1	20.3	97.3	77.1	23.0	100.0
1991			3.1	3.1	78.4	18.5	96.9	78.4	21.6	100.0
1992			3.1	3.1	77.3	19.6	96.9	77.3	22.7	100.0
1993			5.6	5.6	69.0	25.4	94.4	69.0	31.0	100.0
1994			8.2	8.2	65.5	26.4	91.8	65.5	34.6	100.0
1995		0.1	11.2	11.3	65.1	23.7	88.7	65.1	34.9	100.0
1996		0.3	15.4	15.6	65.6	18.8	84.4	65.9	34.1	100.0
1997		0.4	12.1	12.4	67.9	19.7	87.6	68.2	31.8	100.0
1998		0.5	6.9	7.4	69.8	22.8	92.6	70.3	29.7	100.0
1999		4.9	10.1	15.1	63.8	21.2	85.0	68.7	31.3	100.0
2000		9.7	9.3	19.0	64.1	16.9	81.0	73.8	26.2	100.0
2001		9.6	10.7	20.2	64.4	15.4	79.8	74.0	26.0	100.0
2002		9.6	12.7	22.3	59.8	17.9	77.7	69.4	30.6	100.0
2003		8.8	19.3	28.1	61.0	10.9	71.9	69.8	30.2	100.0
2004		7.8	19.1	26.9	58.9	14.3	73.1	66.7	33.3	100.0
2005		7.0	21.9	28.9	56.0	15.1	71.1	63.0	37.0	100.0
2006	4.9	8.2	24.2	37.3	52.6	10.1	62.7	65.7	34.3	100.0
2007	11.4	6.3	26.8	44.5	48.8	6.7	55.5	66.6	33.4	100.0
2008	10.7	6.5	29.1	46.3	47.5	6.2	53.7	64.7	35.3	100.0
2009	10.7	6.1	31.1	47.9	46.2	6.0	52.2	62.9	37.1	100.0
Growth Rate (%)										
1987			40.5	40.5	45.0	43.9	44.9	45.0	43.1	44.7
1988			15.9	15.9	-5.6	24.5	-1.2	-5.6	22.6	-0.5
1989			26.0	26.0	14.7	36.7	18.7	14.7	34.4	19.1
1990			-25.1	-25.1	46.0	44.5	45.7	46.0	30.5	42.1
1991			37.7	37.7	20.1	7.8	17.5	20.1	11.3	18.0
1992			6.7	6.7	4.8	12.0	6.2	4.8	11.3	6.2
1993			86.8	86.8	-7.5	34.5	1.0	-7.5	41.7	3.6
1994			62.4	62.4	5.8	16.0	8.5	5.8	24.4	11.6
1995			53.7	54.5	11.6	0.9	8.5	11.7	13.4	12.3
1996		466.9	64.4	66.4	20.9	-5.1	14.0	21.3	17.2	19.9
1997		38.9	-16.7	-15.8	9.8	11.7	10.2	9.9	-1.1	6.1
1998		13.9	-52.2	-50.4	-14.6	-3.9	-12.2	-14.4	-22.2	-16.9
1999		923.1	44.3	100.7	-9.7	-8.3	-9.4	-3.4	3.9	-1.2
2000		98.5	-6.9	27.6	1.6	-19.3	-3.6	8.6	-15.3	1.1
2001		10.0	26.8	18.2	11.5	0.8	9.3	11.3	10.1	11.0
2002		2.6	22.8	13.2	-4.5	20.0	0.2	-3.6	21.1	2.8
2003		-7.4	52.8	27.0	2.5	-38.9	-7.1	1.1	-0.8	0.5
2004		-1.4	9.6	6.2	7.3	45.5	13.1	6.2	22.6	11.2
2005		-5.5	21.3	13.5	0.2	11.7	2.5	-0.5	17.2	5.4
2006		19.3	11.9	30.9	-4.6	-32.2	-10.4	6.0	-6.1	1.5
2007	150.4	-17.1	19.3	28.5	0.0	-28.9	-4.7	9.1	5.1	7.7
2008	-0.1	9.3	15.9	10.9	3.8	-1.6	3.1	3.6	12.4	6.6
2009	-1.2	-7.3	6.2	2.6	-3.6	-3.8	-3.6	-3.6	4.4	-0.8

Remarks: IPP : Independent Power Producers
SPP : Small Power Producers
EGAT : Electricity Generating Authority of Thailand

Table 4.2-1Y
Coal Import

	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997
Briquettes												
- Quantity (1,000 Tons)			0.02	0.05	0.03	0.06	0.20	3.06	0.05	0.04	0.02	0.01
- Value (Million Bahts)			0.08	0.44	0.29	0.50	0.16	1.18	0.55	0.31	0.39	0.58
Anthracite												
- Quantity (1,000 Tons)	4.20	4.18	4.92	7.92	12.89	18.78	1.57	3.63	1.18	5.08	46.16	8.09
- Value (Million Bahts)	10.96	11.52	16.83	24.42	28.50	32.33	3.94	11.68	4.68	13.45	63.62	27.24
Coal Solid Fuels from Coal												
- Quantity (1,000 Tons)	178.39	250.23	287.38	362.49	236.72	366.14	438.70	867.57	1,408.15	2,244.85	3,733.61	3,191.91
- Value (Million Bahts)	201.33	246.99	286.10	526.84	330.46	377.03	424.75	805.85	1,345.23	1,833.53	3,485.59	3,427.83
Peat												
- Quantity (1,000 Tons)		0.00				0.01				0.25	0.74	1.27
- Value (Million Bahts)		0.07				0.06				1.53	5.98	6.28
Coke of Coal												
- Quantity (1,000 Tons)	39.12	57.09	68.76	84.57	91.25	84.43	60.39	61.50	109.84	96.95	125.30	87.48
- Value (Million Bahts)	142.34	183.34	212.61	312.30	286.52	308.75	220.39	200.71	368.59	325.56	429.56	350.98
Total												
- Quantity (1,000 Tons)	221.70	311.50	361.08	455.03	340.90	469.42	500.85	935.76	1,519.21	2,347.16	3,905.84	3,288.78
- Value (Million Bahts)	354.63	441.92	515.62	863.99	645.77	718.66	649.23	1,019.42	1,719.06	2,174.39	3,985.25	3,813.11

Source : The Customs Department
Compiled by : Energy Policy and Planning Office (EPPO)

Table 4.2-1Y (Cont.)
Coal Import

	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
Briquettes												
- Quantity (1,000 Tons)	0.03	0.00			0.00		0.02	0.02	0.03	50.13	0.01	0.00
- Value (Million Bahts)	0.20	0.23	0.04	0.01	0.05	0.27	0.75	0.07	0.50	56.92	0.76	0.82
Anthracite												
- Quantity (1,000 Tons)	23.10	110.80	164.69	234.89	581.26	532.86	355.13	487.76	553.49	305.46	242.20	677.52
- Value (Million Bahts)	47.31	149.57	243.30	353.50	827.78	829.85	720.87	1,406.69	1,236.50	836.44	1,280.39	2,209.51
Coal Solid Fuels from Coal												
- Quantity (1,000 Tons)	1,521.42	3,079.53	3,933.74	4,651.04	4,944.07	6,509.00	7,124.40	8,006.40	10,550.96	13,777.60	15,679.32	15,587.41
- Value (Million Bahts)	1,629.55	3,507.49	4,472.65	6,810.36	6,485.58	8,106.07	10,520.27	13,166.66	17,014.32	24,769.55	34,089.44	33,448.03
Peat												
- Quantity (1,000 Tons)	1.07	1.21	1.67	2.23	2.85	3.82	4.03	3.16	4.13	214.29	4.88	6.36
- Value (Million Bahts)	6.76	7.51	8.82	13.35	18.74	28.45	31.80	25.67	29.39	3,329.67	45.04	52.75
Coke of Coal												
- Quantity(1,000 Tons)	87.38	86.34	83.10	57.06	70.65	64.75	66.39	70.96	45.48	66.32	52.59	117.54
- Value(Million Bahts)	384.35	344.98	342.88	312.16	540.16	405.16	1,001.56	822.98	487.50	663.81	1,040.38	1,224.22
Total												
- Quantity (1,000 Tons)	1,632.98	3,277.93	4,183.20	4,945.21	5,598.84	7,110.44	7,549.95	8,568.29	11,214.80	14,413.80	15,979.00	16,388.84
- Value (Million Bahts)	2,068.16	4,009.80	5,067.69	7,489.37	7,872.31	9,369.79	12,275.26	15,422.06	18,895.87	29,656.38	36,456.01	36,935.34

Source : The Customs Department
Compiled by : Energy Policy and Planning Office (EPPO)



Energy of Thailand

Chapter 5
ELECTRICITY



บทที่ 5
ไฟฟ้า



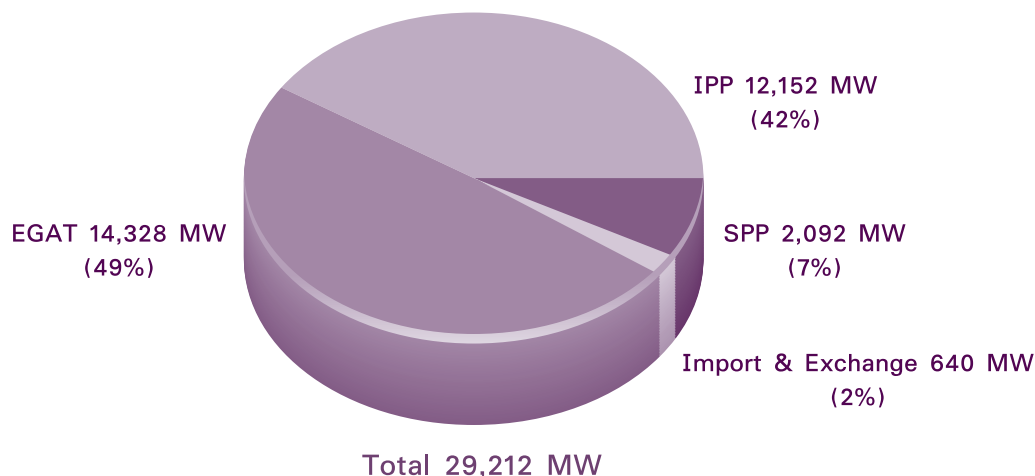
บทที่ 5 ไฟฟ้า

กำลังการผลิตติดตั้ง ในระยะเริ่มต้นการไฟฟ้าฝ่ายผลิตแห่งประเทศไทย (กฟผ.) เป็นผู้ผลิตไฟฟ้าเพียงรายเดียว ต่อมารัฐบาลมีนโยบายให้เอกชนเข้ามามีส่วนร่วมในการผลิตไฟฟ้า เพื่อให้มีการแข่งขันด้านการผลิต ในปี 1994 จึงมีผู้ผลิตไฟฟ้าเอกชนรายใหญ่ (Independent Power Producer : IPP) และผู้ผลิตไฟฟ้าเอกชนรายเล็ก (Small Power Producers : SPP) เข้ามาเป็นผู้ผลิตเพิ่มเติมทำให้เกิดการปรับปรุงประสิทธิภาพการผลิตและบริการ ในปัจจุบันได้ส่งเสริมให้มีการใช้พลังงานหมุนเวียนในการผลิตไฟฟ้า จึงมีผู้ผลิตไฟฟ้าขนาดเล็กมาก (Very Small Power Producer : VSPP) ที่ใช้พลังงานหมุนเวียนเป็นหลักเข้ามาในระบบ

ในปี 2009 มีกำลังการผลิตติดตั้งรวมทั้งสิ้น 29,212 เมกะวัตต์ เป็นการผลิตติดตั้งของ กฟผ. ร้อยละ 49 IPP ร้อยละ 42 SPP ร้อยละ 7 และนำเข้าจาก สปป.ลาว และแลกเปลี่ยนกับมาเลเซียร้อยละ 2

Power Generation-Installed Capacity

As of December 2009



Chapter 5 Electricity

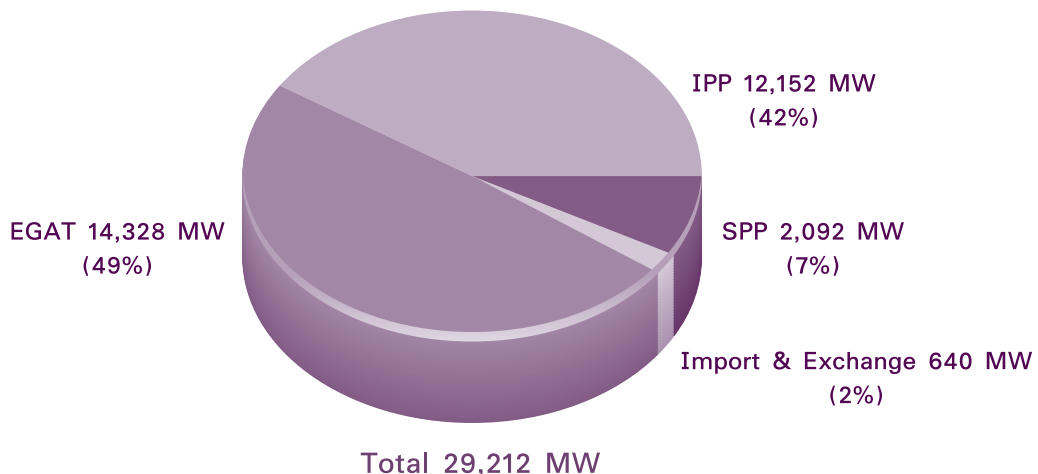


Installed Generating Capacity. Initially, the Electricity Generating Authority of Thailand (EGAT) was the sole power producer in Thailand. Later, the government had formulated a policy promoting the private sector role in the power generation sector in order to encourage competition in the generation business. In 1994, a number of Independent Power Producers (IPP) and Small Power Producers (SPP) had taken part in the power supply, resulting in improvement in power generation and service quality. Currently, promotion is being made on the use of renewable energy in power generation; as a result, a number of Very Small Power Producers (VSPP), using renewable energy as main fuel, are now supplying power to the grid.

In 2009, the total installed capacity stood at 29,212 MW, divided into the installed capacity of EGAT, 49%; IPP, 42%; SPP, 7%; and purchase/import from Lao PDR and exchange with Malaysia, 2%.

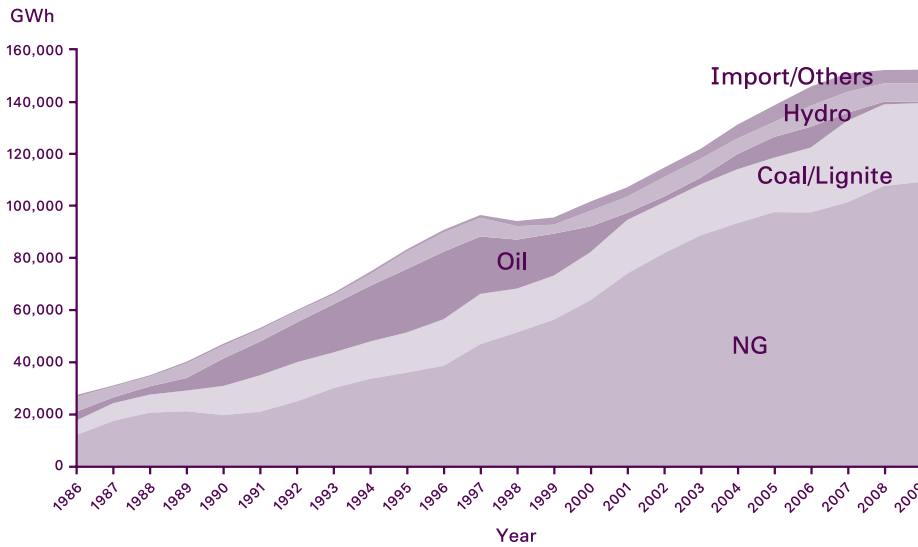
Power Generation-Installed Capacity

As of December 2009

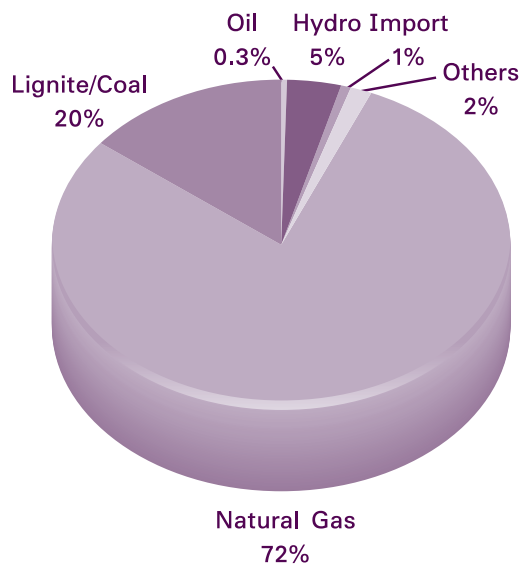


การผลิตพลังงานไฟฟ้า มีแนวโน้มเพิ่มขึ้น ยกเว้นปี 1998 ซึ่งเกิดวิกฤตเศรษฐกิจ ทำให้ปริมาณการผลิตพลังงานไฟฟ้าของไทยลดลง โดยในปี 2009 การผลิตอยู่ที่ระดับ 148,364 กิกะวัตต์ชั่วโมง เป็นการผลิตไฟฟ้าจากก๊าซธรรมชาติร้อยละ 72 ถ่านหิน/ลิกไนต์ร้อยละ 20 ไฟฟ้าพลังน้ำร้อยละ 5 นำเข้า และแลกเปลี่ยนไฟฟ้าร้อยละ 1 น้ำมันร้อยละ 0.3 และอื่น ๆ ร้อยละ 2

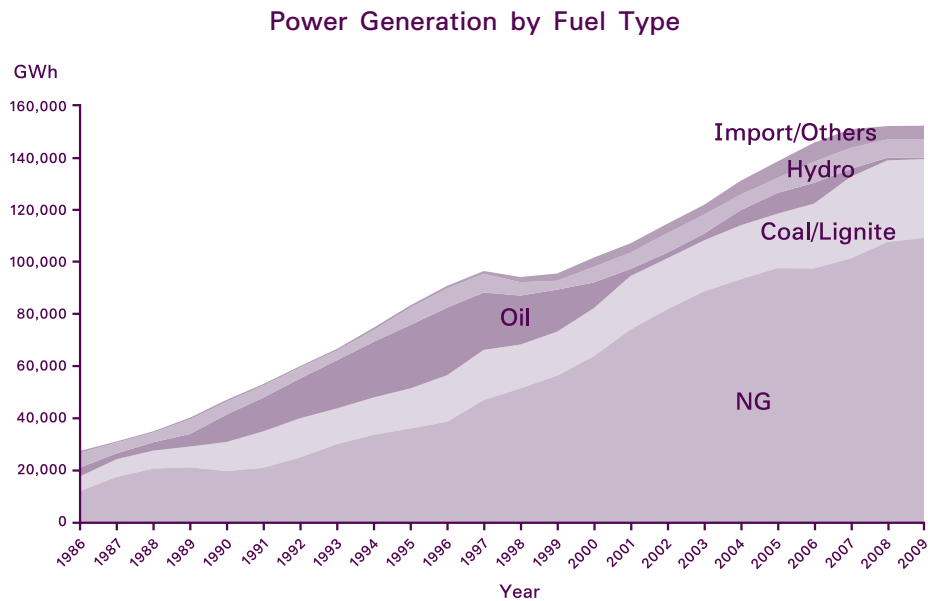
Power Generation by Fuel Type



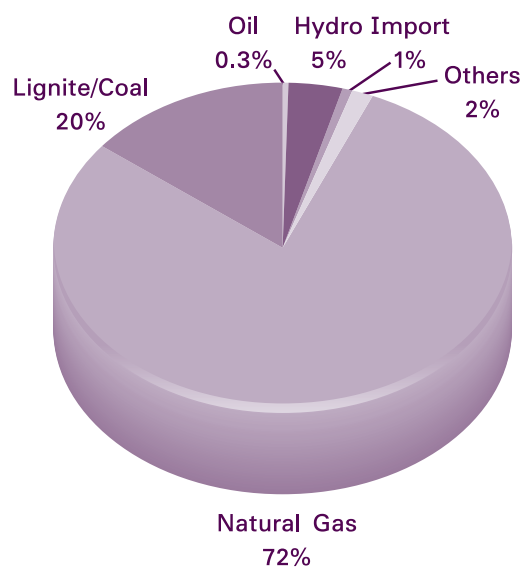
Share of Power Generation by Fuel Type 2009



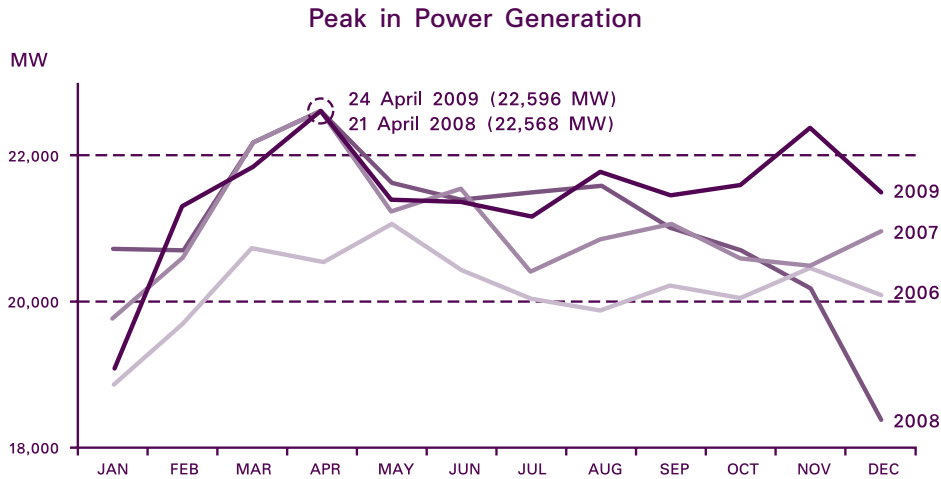
Electricity Generation. The electricity generation trend in Thailand has been on the rise, except for the year 1998 due to the economic crisis causing a decrease in the amount of electricity generation. In 2009, the generation was at a level of 148,364 Gigawatt-hours (GWh), with the use of the following fuels: natural gas, 72%; coal/lignite, 20%; hydropower, 5%; electricity import & exchange, 1%; oil, 0.3%; and others, 2%.



Share of Power Generation by Fuel Type 2009

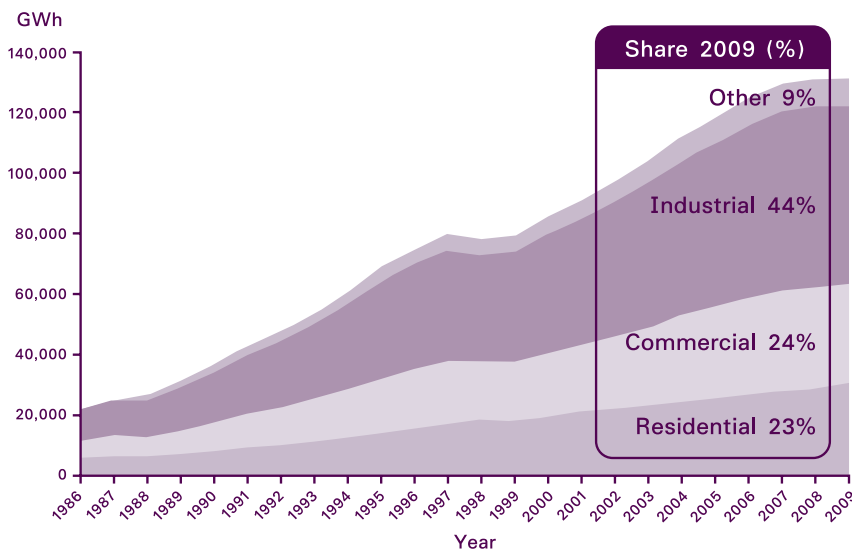


ความต้องการไฟฟ้าสูงสุด ในปี 2009 มีค่ามากที่สุดเมื่อเทียบกับทุกปีที่ผ่านมา โดยเกิดขึ้น ณ วันศุกร์ที่ 24 เมษายน 2009 เวลา 14.30 น. อยู่ที่ระดับ 22,596 เมกะวัตต์ และค่าตัวประกอบการใช้ไฟฟ้าเฉลี่ย (Load Factor) อยู่ที่ระดับร้อยละ 76.8

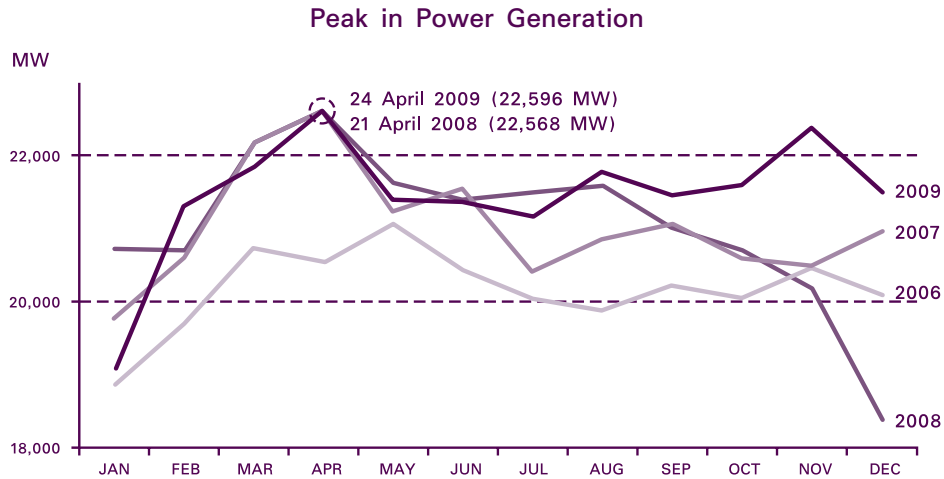


การใช้ไฟฟ้า ปริมาณการใช้ไฟฟ้าของไทยมีแนวโน้มเพิ่มขึ้น โดยในช่วงก่อนปี 1997 ซึ่งเป็นช่วงก่อนวิกฤตเศรษฐกิจ (วิกฤตต้มยำกุ้ง) ประเทศไทยมีอัตราเพิ่มการใช้ไฟฟ้าอยู่ในระดับสูง โดยมีอัตราเฉลี่ยตั้งแต่ปี 1986-1996 อยู่ที่ระดับร้อยละ 11.9 และในปีที่เกิดวิกฤตเศรษฐกิจมีอัตราการเพิ่มการใช้ไฟฟ้าลดลงร้อยละ 2.6 ต่อมาในช่วงหลังเกิดวิกฤตเศรษฐกิจอัตราการเพิ่มการใช้ไฟฟ้าชะลอลง โดยอัตราเพิ่มเฉลี่ยตั้งแต่ปี 2000-2009 อยู่ที่ระดับร้อยละ 4.9 ทั้งนี้ในปี 2009 ปริมาณการใช้ไฟฟ้าอยู่ที่ระดับ 134,793 กิกะวัตต์ชั่วโมง

Electricity Consumption by Sector



Peak Load. The peak load in 2009 was the highest ever experienced when compared with that in the past several years. The peak load occurred on Friday, 24 April 2009, at 14.30 hrs., reaching 22,596 MW. The average load factor was at 76.8%.



Electricity Consumption. The amount of electricity consumption in Thailand had been increasing continuously. Prior to 1997, i.e. before the economic crisis (“Tom Yam Kung Crisis”), Thailand had experienced a high growth rate of electricity consumption, with an average growth rate of 11.9% during 1986-1996, and during the year of economic crisis, the demand decreased by 2.6%. After the crisis, there was a slowdown in the electricity demand, with an average growth rate of 4.9% during 2000-2009. In 2009, the demand stood at 134,793 GWh.

Electricity Consumption by Sector

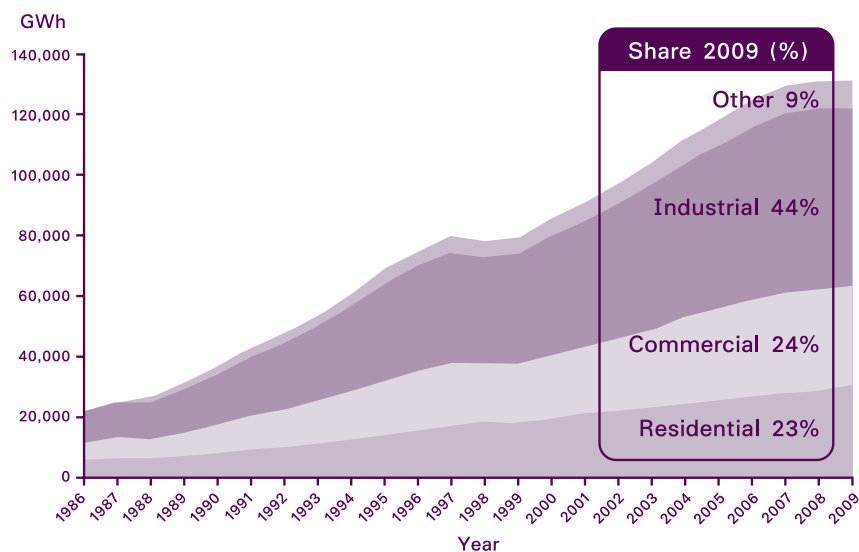


Table 5.1-1Y
Electricity Generation by Type of Fuel

Unit : GWh

Year	Hydro	Fuel Oil	Lignite	Natural Gas	Diesel	Geo Thermal	Non Conventional	Imported	DEDP	SPP	IPP	Total
1986	5,531.70	3,334.88	5,541.28	10,251.71	10.24	0.00	0.00	758.38	0.00	0.00	0.00	25,428.19
1987	4,056.23	2,188.38	6,698.01	15,623.66	2.41	0.00	0.00	415.45	4.92	0.00	0.00	28,989.06
1988	3,718.17	3,142.03	6,799.50	18,719.88	3.47	0.00	0.00	429.78	30.19	0.00	0.00	32,843.02
1989	5,512.21	4,738.83	7,869.57	19,194.75	16.45	0.00	0.00	643.15	21.57	0.00	0.00	37,996.53
1990	4,900.11	10,012.63	11,052.85	17,765.06	356.85	1.01	0.02	652.32	23.98	0.00	0.00	44,764.83
1991	4,505.35	12,636.39	13,785.22	19,051.19	112.57	1.00	0.02	593.11	28.65	0.00	0.00	50,713.50
1992	4,158.94	14,928.92	14,815.05	22,943.04	161.34	1.12	0.02	479.90	19.71	0.00	0.00	57,508.05
1993	3,612.50	17,494.52	13,503.75	27,953.16	743.97	1.14	0.03	644.52	28.26	0.00	0.00	63,981.85
1994	4,403.60	19,647.18	14,130.91	30,920.18	1,385.18	0.90	0.04	870.82	36.52	13.30	564.63	71,973.25
1995	6,593.01	21,711.89	15,152.25	25,377.38	2,261.18	1.05	0.04	699.12	26.00	261.65	8,352.74	80,436.33
1996	7,215.00	20,983.73	17,507.17	24,722.17	4,572.36	1.19	0.17	805.61	26.17	1,232.93	10,730.73	87,797.24
1997	7,082.00	19,266.11	18,924.58	28,613.71	2,440.68	1.28	0.22	745.63	27.19	2,150.90	14,154.62	93,406.91
1998	5,088.82	17,534.10	16,475.24	32,702.16	988.97	1.30	0.24	1,622.71	14.61	3,191.85	13,535.73	91,155.72
1999	3,409.67	15,429.25	15,418.91	32,851.18	457.33	1.49	0.24	2,255.66	34.49	8,353.15	14,259.57	92,470.95
2000	5,891.44	9,611.42	15,852.17	35,642.22	107.95	1.65	0.33	2,966.25	25.64	10,175.54	18,212.92	98,487.52
2001	6,174.35	2,419.96	17,722.36	34,786.99	248.06	1.50	0.46	2,881.71	31.08	11,644.29	27,958.14	103,868.90
2002	7,366.94	1,969.39	16,651.86	35,251.60	150.98	1.44	0.31	2,812.18	31.71	12,548.25	34,469.23	111,253.87
2003	7,207.76	2,434.28	16,856.16	31,694.40	75.30	1.61	0.24	2,473.41	32.29	13,299.82	44,332.77	118,408.03
2004	5,896.29	5,467.67	17,993.55	30,901.10	232.95	1.26	0.87	3,377.85	25.50	13,440.60	50,172.86	127,510.51
2005	5,671.18	7,640.00	18,334.50	33,064.85	176.85	1.45	0.81	4,371.89	17.40	13,546.61	51,972.65	134,798.20
2006	7,950.05	7,808.44	18,027.68	33,962.67	76.92	1.72	0.85	5,151.85	44.79	13,530.95	55,362.65	141,918.57
2007	7,961.36	2,966.57	18,497.68	36,501.69	28.24	1.84	0.81	4,488.36	21.70	14,439.45	62,118.21	147,025.89
2008	6,950.69	990.08	18,679.30	37,260.98	23.28	1.30	0.70	2,783.57	28.77	14,036.43	67,465.82	148,220.93
2009	6,965.74	448.23	17,922.09	41,761.02	45.07	1.41	1.86	2,451.41	24.04	13,902.10	64,840.71	148,363.68

Source : EGAT

Remarks : Power Generation from NG and Diesel Oil not Including REGCOS generation since Dec, 1994

Table 5.1-2Y
Electricity Generation Classified by Fuel Type

Unit : GWh

Year	Natural Gas		Coal & Lignite		Fuel Oil		Oil		Hydro Electricity	Imported	Others	Total
			Lignite	Coal	Total	Diesel	Total	Total				
1986	10,252	5,541	0	5,541	3,335	10	3,345	5,532	758	0	25,428	
1987	15,624	6,698	0	6,698	2,188	2	2,191	4,056	415	5	28,989	
1988	18,720	6,800	0	6,800	3,142	3	3,146	3,718	430	30	32,843	
1989	19,195	7,870	0	7,870	4,739	16	4,755	5,512	643	22	37,997	
1990	17,765	11,053	0	11,053	10,013	357	10,369	4,900	652	25	44,765	
1991	19,051	13,785	0	13,785	12,636	113	12,749	4,505	593	30	50,714	
1992	22,943	14,815	0	14,815	14,929	161	15,090	4,159	480	21	57,508	
1993	27,953	13,504	0	13,504	17,495	744	18,238	3,613	645	29	63,982	
1994	31,485	14,131	0	14,131	19,647	1,385	21,032	4,404	871	51	71,973	
1995	33,863	15,152	13	15,165	21,712	2,261	23,973	6,593	699	143	80,436	
1996	36,433	17,507	73	17,580	20,984	4,572	25,556	7,215	806	207	87,797	
1997	44,574	18,925	101	19,026	19,266	2,441	21,707	7,082	746	273	93,407	
1998	49,021	16,475	115	16,590	17,534	989	18,523	5,089	1,623	310	91,156	
1999	53,839	15,419	1,214	16,633	15,429	457	15,887	3,410	2,256	447	92,471	
2000	61,186	15,852	2,345	18,197	9,611	108	9,719	5,891	2,966	527	98,488	
2001	71,229	17,722	2,574	20,296	2,420	248	2,668	6,174	2,882	621	103,869	
2002	78,910	16,652	2,640	19,292	1,969	151	2,120	7,367	2,812	752	111,254	
2003	85,688	16,856	2,445	19,301	2,434	75	2,510	7,208	2,473	1,231	118,408	
2004	90,289	17,994	2,411	20,404	5,468	233	5,701	5,896	3,378	1,842	127,511	
2005	94,468	18,335	2,280	20,614	7,640	177	7,817	5,671	4,372	1,857	134,798	
2006	94,398	18,028	6,441	24,468	7,808	77	7,885	7,950	5,152	2,065	141,919	
2007	98,148	18,498	12,383	30,881	2,967	28	2,995	7,961	4,488	2,553	147,026	
2008	104,386	18,679	12,158	30,838	990	23	1,013	6,951	2,784	2,250	148,221	
2009	105,930	17,922	11,886	29,808	448	45	493	6,966	2,451	2,710	148,364	

Source : EGAT

Table 5.1-3Y
Peak, Demand and Load Factor

Year	Peak (MW)	Generation (GWh)	Load Factor (%)
1986	4,220	25,429	68.8
1987	4,887	28,989	67.7
1988	5,444	32,843	68.7
1989	6,337	38,006	68.5
1990	7,221	44,765	70.8
1991	8,045	50,713	72.0
1992	8,904	57,509	73.5
1993	9,839	63,982	74.2
1994	11,064	71,973	74.3
1995	12,268	80,436	74.8
1996	13,311	87,797	75.1
1997	14,506	93,407	73.5
1998	14,180	91,156	73.4
1999	13,712	91,414	76.1
2000	14,918	98,487	75.2
2001	16,126	103,856	73.5
2002	16,681	111,256	76.1
2003	18,121	117,290	73.9
2004	19,326	127,511	75.1
2005	20,538	134,798	74.9
2006	21,064	141,919	76.9
2007	22,586	147,026	74.3
2008	22,568	148,264	74.8
2009	22,596*	148,372	75.0

Source : EGAT

* Note : Estimate

Table 5.1-4Y
EGAT Purchase from SPP

Unit : GWh

Year	Natural Gas	Coal / Lignite	Renewable Energy	Total
1994			13.30	13.30
1995	133.14	12.86	115.65	261.65
1996	980.44	72.90	179.59	1,232.93
1997	1,805.35	101.22	244.82	2,151.38
1998	2,783.25	115.24	293.37	3,191.85
1999	6,728.62	1,214.29	411.21	8,354.11
2000	7,331.08	2,345.17	499.29	10,175.54
2001	8,483.65	2,573.67	588.05	11,645.37
2002	9,189.42	2,639.65	718.95	12,548.01
2003	9,660.66	2,445.22	1,197.35	13,303.23
2004	9,215.09	2,410.93	1,814.29	13,440.30
2005	9,430.12	2,279.80	1,837.21	13,547.14
2006	9,128.00	2,385.14	2,017.81	13,530.95
2007	9,683.50	2,227.71	2,528.24	14,439.45
2008	9,801.51	2,015.89	2,219.03	14,036.43
2009	9,346.21	1,867.85	2,682.49	13,896.54

Table 5.1-5Y
EGAT Purchase from IPP

Unit : GWh

Year	Natural Gas	Coal / Lignite	Total
1994	564.63		564.63
1995	8,352.75		8,352.75
1996	10,730.73		10,730.73
1997	14,154.62		14,154.62
1998	13,535.72		13,535.72
1999	14,294.50		14,294.50
2000	18,303.59		18,303.59
2001	27,945.32		27,945.32
2002	33,595.91		33,595.91
2003	44,332.78		44,332.78
2004	50,172.66		50,172.66
2005	51,729.97		51,729.97
2006	51,307.08	4,055.56	55,362.65
2007	51,962.49	10,155.73	62,118.21
2008	57,323.36	10,142.45	67,465.82
2009	54,345.31	10,018.13	64,363.43

Table 5.2-1Y
Electricity Consumption in MEA Service Areas

Unit : GWh

Year	Residential	Business	Industry	Others	Total
1988	2,666.54	4,345.71	5,898.98	961.67	13,872.90
1989	2,945.40	5,111.45	6,691.20	1,005.09	15,753.14
1990	3,444.90	6,146.67	7,528.84	1,092.39	18,212.80
1991	3,877.32	7,369.60	8,701.05	1,155.45	21,103.42
1992	4,233.42	7,829.28	9,048.43	1,274.38	22,385.51
1993	4,681.05	8,573.11	9,710.98	1,395.45	24,360.59
1994	5,211.36	9,470.91	10,727.98	1,541.60	26,951.85
1995	5,685.45	10,444.59	11,830.86	1,700.08	29,660.98
1996	6,096.46	11,022.73	12,485.76	1,794.18	31,399.13
1997	6,667.50	11,113.56	12,588.63	1,808.96	32,178.65
1998	6,866.98	10,225.57	11,582.79	1,664.44	30,339.78
1999	6,407.75	10,202.09	11,556.17	1,660.64	29,826.65
2000	6,881.89	11,061.89	12,530.09	1,800.54	32,274.41
2001	7,295.70	11,564.81	13,099.74	1,882.42	33,842.67
2002	7,626.85	12,255.92	13,882.64	1,994.92	35,760.33
2003	7,998.78	12,732.27	14,422.20	2,072.46	37,225.71
2004	8,334.63	13,411.11	15,191.11	2,182.94	39,119.79
2005	8,637.37	13,710.88	15,530.67	2,231.74	40,110.66
2006	9,079.15	14,115.96	15,989.52	2,297.67	41,482.30
2007	9,230.40	14,291.02	16,187.80	2,326.15	42,035.37
2008	9,381.42	14,312.57	16,212.22	2,329.67	42,235.88
2009	9,779.26	13,920.31	15,767.91	2,265.82	41,733.30

Table 5.2-2Y
Electricity Consumption in PEA Service Areas

Unit : GWh

Year	Residential	Business	Industry	Agriculture	Others	Total
1988	3,555.50	2,247.07	6,043.40	67.65	1,114.21	13,027.83
1989	4,060.39	2,622.14	7,636.90	89.56	1,226.14	15,635.13
1990	4,618.29	3,260.14	9,188.39	96.23	1,378.04	18,541.09
1991	5,245.39	3,983.31	10,704.97	90.94	1,579.60	21,604.21
1992	5,966.42	4,685.99	12,592.58	117.69	1,858.13	25,220.81
1993	6,709.07	5,436.86	14,610.30	133.19	2,155.86	29,045.28
1994	7,655.47	6,337.44	17,030.45	95.75	2,512.97	33,632.08
1995	8,511.29	7,457.20	20,039.51	104.03	2,956.98	39,069.01
1996	9,902.34	8,231.96	22,121.53	121.34	3,264.22	43,641.39
1997	10,654.95	9,077.09	24,392.61	167.02	3,599.33	47,891.00
1998	11,905.49	8,771.78	23,572.20	210.91	3,478.27	47,938.65
1999	11,763.39	9,198.52	24,718.96	164.17	3,647.47	49,492.51
2000	12,510.69	10,053.40	27,016.17	154.15	3,986.45	53,720.86
2001	13,882.21	10,627.42	28,558.77	178.78	4,214.07	57,461.25
2002	14,518.30	11,507.23	30,923.02	192.03	4,562.94	61,703.52
2003	15,330.75	12,604.58	33,871.59	227.88	4,998.06	67,032.86
2004	16,203.70	15,276.12	35,619.43	245.40	5,733.23	73,077.88
2005	16,876.72	16,452.94	38,363.45	249.52	6,174.89	78,117.52
2006	17,835.76	17,586.39	41,005.23	240.24	6,600.09	83,267.71
2007	18,729.17	18,547.91	43,248.32	267.76	6,961.45	87,754.61
2008	19,310.38	18,803.92	43,844.31	287.52	7,057.06	89,303.19
2009	20,478.85	18,713.47	43,634.01	315.90	7,023.21	90,165.44

Table 5.2-3Y
Electricity Consumption Nationwide

Unit : GWh

Year	Residential	Business	Industry	Agriculture	Others	EGAT Direct Customer	Total
1985	5,164.70	5,344.10	9,298.00	55.00	170.10		20,031.90
1986	5,795.10	5,847.80	10,162.70	56.70	172.10		22,034.40
1987	6,135.50	7,331.20	11,319.40	61.30	46.80		24,894.20
1988	6,222.04	6,592.78	11,942.38	67.65	2,075.88	1,209.64	28,110.37
1989	7,005.79	7,733.59	14,328.10	89.56	2,231.23	1,383.96	32,772.23
1990	8,063.19	9,406.81	16,717.23	96.23	2,470.43	1,449.07	38,202.96
1991	9,122.71	11,352.91	19,406.02	90.94	2,735.05	1,531.24	44,238.87
1992	10,199.84	12,515.27	21,641.01	117.69	3,132.51	1,724.85	49,331.17
1993	11,390.12	14,009.97	24,321.28	133.19	3,551.31	1,825.42	55,231.29
1994	12,866.83	15,808.35	27,758.43	95.75	4,054.57	1,974.09	62,558.02
1995	14,196.74	17,901.79	31,870.37	104.03	4,657.06	2,140.32	70,870.31
1996	15,998.80	19,254.69	34,607.29	121.34	5,058.40	2,042.43	77,082.95
1997	17,322.45	20,190.65	36,981.24	167.02	5,408.29	1,928.37	81,998.02
1998	18,772.47	18,997.35	35,154.99	210.91	5,142.71	1,621.20	79,899.63
1999	18,171.14	19,400.61	36,275.13	164.17	5,308.11	1,666.34	80,985.50
2000	19,392.58	21,115.29	39,546.26	154.15	5,786.99	1,751.82	87,747.09
2001	21,177.91	22,192.23	41,658.51	178.78	6,096.49	1,716.76	93,020.68
2002	22,145.15	23,763.15	44,805.66	192.03	6,557.86	1,943.26	99,407.11
2003	23,329.53	25,336.85	48,293.79	227.88	7,070.52	1,949.26	106,207.83
2004	24,538.33	28,687.23	50,810.54	245.40	7,916.17	2,127.99	114,325.66
2005	25,514.09	30,163.82	53,894.12	249.52	8,406.63	2,409.19	120,637.37
2006	26,914.91	31,702.35	56,994.75	240.24	8,897.76	2,487.23	127,237.24
2007	27,959.57	32,838.93	59,436.12	267.76	9,287.60	2,702.14	132,492.12
2008	28,691.80	33,116.49	60,056.53	287.52	9,386.73	2,872.75	134,411.82
2009	30,258.11	32,633.78	59,401.92	315.90	9,289.03	2,894.15	134,792.89

Remarks : 1991 Figures Onwards based on 1990 Structure
Source : MEA, PEA and EGAT

Table 5.3-1Y
EGAT Fuel Consumption in Power Generation

Year	Fuel Oil (M.Litres)	Disel Oil (M.Litres)	Natural Gas (MMSCFD)	Lignite (Tons)
1986	866	8	257	4,685,127
1987	575	5	396	5,726,917
1988	831	5	473	5,895,752
1989	1,195	17	484	6,764,206
1990	2,532	163	473	9,875,324
1991	3,164	62	606	11,724,691
1992	3,719	71	640	12,370,539
1993	4,322	288	725	11,490,328
1994	4,789	474	820	12,155,884
1995	5,258	756	838	13,567,494
1996	5,068	1,320	929	16,405,340
1997	4,665	729	1,170	18,010,806
1998	4,253	306	1,205	15,388,095
1999	3,762	135	1,206	13,893,584
2000	2,364	29	1,301	14,120,569
2001	647	75	1,504	15,744,116
2002	499	41	1,632	15,035,329
2003	605	23	1,624	15,406,532
2004	1,296	55	1,671	16,536,694
2005	1,851	49	1,740	16,571,091
2006	1,895	21	1,766	15,815,374
2007	780	8	1,715	15,811,050
2008	249	8	1,558	16,407,465
2009	111	13	1,541	15,818,265

Source : EGAT

Remarks : From Dec 1994 onwards, Disel Oil does not Include Regco Use



Energy Statistics
of Thailand 2010

Chapter 6
ENERGY VALUE

.....
บทที่ 6
มูลค่าพลังงาน



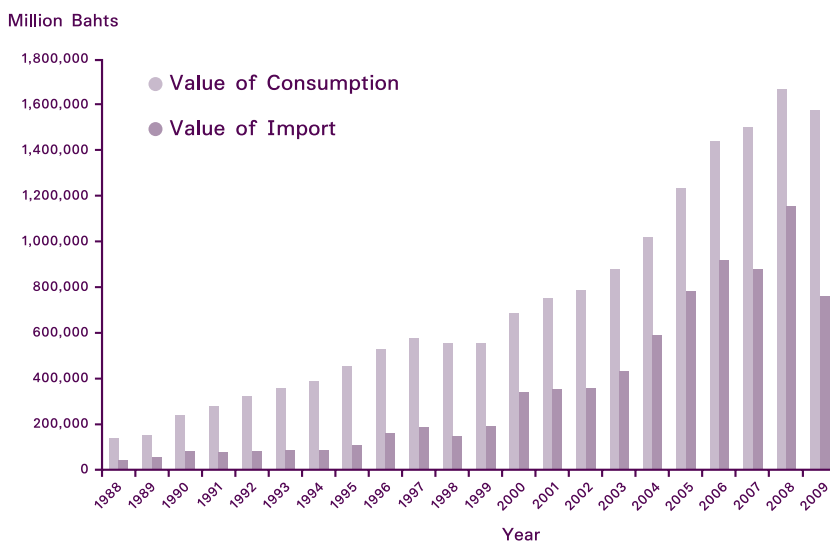
บทที่ 6 มูลค่าพลังงาน

มูลค่าการใช้พลังงาน มีแนวโน้มเพิ่มขึ้นต่อเนื่องทุกปี อย่างไรก็ตามในปี 2009 ประเทศไทยมีมูลค่าการใช้พลังงานอยู่ที่ระดับ 1,578 พันล้านบาท ลดลงจากปี 2008 ร้อยละ 5.5 เนื่องจากปีที่ผ่านมาเกิดวิกฤตทางการเงินของสหรัฐอเมริกาซึ่งส่งผลกระทบต่อเศรษฐกิจโลก ทำให้ในช่วงครึ่งปีแรกราคาน้ำมันปรับตัวอยู่ในระดับสูง ต่อมาช่วงครึ่งปีหลังราคาน้ำมันเริ่มปรับตัวลดลง ซึ่งส่งผลสุทธิให้มูลค่าการใช้พลังงานในปี 2009 ลดลงเกือบทุกชนิด ยกเว้นไฟฟ้าและพลังงานทดแทน

มูลค่าการนำเข้าพลังงาน มีแนวโน้มเพิ่มขึ้น อย่างไรก็ตามในปี 2009 ประเทศไทยมีมูลค่าการนำเข้าพลังงานอยู่ที่ระดับ 761 พันล้านบาท ลดลงจากปี 2008 ร้อยละ 34.5 เนื่องจากปริมาณการนำเข้าน้ำมันดิบลดลงร้อยละ 1.0 ประกอบกับราคาน้ำมันดิบในปีนี้อ่ต่ำกว่าปีที่แล้ว โดยมูลค่าการนำเข้าน้ำมันดิบมีสัดส่วนมากที่สุดคิดเป็นร้อยละ 82 ของมูลค่าการนำเข้าทั้งหมด ลดลงร้อยละ 37.9 รองลงมาเป็นก๊าซธรรมชาติ มีมูลค่าการนำเข้าลดลงร้อยละ 7.0 น้ำมันสำเร็จรูปลดลงร้อยละ 51.1 และไฟฟ้านำเข้าลดลงร้อยละ 20.2 ในขณะที่มูลค่าการนำเข้าถ่านหินเพิ่มขึ้นร้อยละ 1.3

ประเทศไทยมีสัดส่วนมูลค่าการนำเข้าพลังงานต่อการใช้พลังงานในปี 2009 อยู่ที่ระดับร้อยละ 48 ต่ำกว่าปี 2008 ซึ่งอยู่ที่ระดับร้อยละ 69

Value of Consumption and Imported Energy



มูลค่าการใช้น้ำมันสำเร็จรูป ในปี 2009 มีมูลค่าการใช้อยู่ที่ระดับ 956 พันล้านบาท ลดลงจากปี 2008 ร้อยละ 12.3 โดยมูลค่าการใช้ น้ำมันเกือบทุกชนิดลดลง ยกเว้นก๊าซปิโตรเลียมเหลว (LPG) ที่เพิ่มขึ้นร้อยละ 4.8

มูลค่าการส่งออกพลังงาน ในปี 2009 มีมูลค่าการส่งออกอยู่ที่ระดับ 236 พันล้านบาท ลดลงจากปี 2008 ร้อยละ 26.0 โดยมูลค่าการส่งออกน้ำมันดิบและน้ำมันสำเร็จรูปลดลง ในขณะที่ไฟฟ้าเพิ่มขึ้นร้อยละ 49.4

Chapter 6 Energy Value

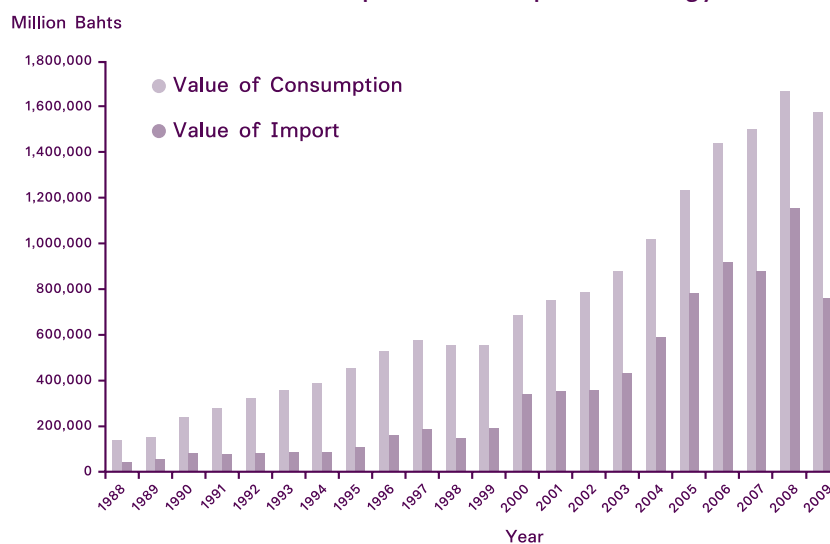


Value of Energy Consumption. Thailand's expenditure on energy consumption had been increasing each year. However, in 2009, energy consumption in Thailand was worth 1,578 billion Baht (approx. US\$ 46.4 billion, at a rate of 34 THB/US\$), a decrease of 5.5% from that in the previous year due to the financial crisis in the USA that emerged in 2008, adversely affecting in the world economy and causing volatile oil prices at high levels in the first half of 2009. Later, in the second half of the year, oil prices began to drop, resulting in a net decrease in expenditure on all energy types in 2009, except for electricity and renewable energy.

Value of Energy Import. The value of energy import to Thailand had been increasing. However, in 2009, the value of energy import was 761 billion Baht, a decrease of 34.5% from that in 2008 because the amount of crude oil import decreased by 1.0% coupled with the fact that the crude oil price in 2009 was lower than that in the previous year. The value of imported crude oil, which constituted the largest share (82%) of the total import value, decreased by 37.9%. Next to it were imports of natural gas, petroleum products and electricity, of which the value decreased by 7.0%, 51.1% and 20.2% respectively; whereas the value of imported coal increased by 1.3%.

In Thailand, the ratio of energy import value to energy consumption value in 2009 was 48%, decreasing from 69% in 2008.

Value of Consumption and Imported Energy



Value of Petroleum Product Consumption. In 2009 the value of petroleum product consumption totaled 956 billion Baht, a decrease of 12.3% from that in 2008. Expenditure on consumption of almost all product types decreased, except for that on LPG which increased by 4.8%.

Value of Energy Export. In 2009, the value of energy export stood at 236 billion Baht, decreasing by 26.0% from that in 2008. The value of crude oil and petroleum product exports decreased while that of electricity increased by 49.4%.

Table 6.1-1Y
Expenditure on Final Energy Consumption

Unit : Million Bahts

Energy Type	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997
Petroleum Products	78,445	83,866	94,098	109,861	132,004	161,577	171,865	188,741	199,027	232,997	280,397	318,671
Electricity			45,538	52,743	62,452	73,201	87,415	98,309	111,621	136,348	153,546	162,300
Natural Gas	302	143	254	328	567	827	1,200	1,519	2,067	3,059	3,398	4,685
Lignite/Coal	268	321	384	856	2,093	2,529	2,841	3,595	4,835	5,821	7,511	7,819
Renewable*					41,165	41,125	60,461	65,323	72,738	76,815	85,536	87,341
Total	79,015	84,329	140,275	163,788	238,281	279,260	323,783	357,487	390,288	455,040	530,388	580,815

Table 6.1-1Y (Cont.)
Expenditure on Final Energy Consumption

Unit : Million Bahts

Energy Type	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
Petroleum Products	306,762	309,746	407,912	430,516	451,554	515,313	605,407	774,404	915,461	955,370	1,089,748	955,715
Electricity	175,658	168,137	199,323	232,967	245,877	266,082	300,608	328,237	385,135	390,731	394,538	429,609
Natural Gas	4,622	5,942	10,283	11,396	13,413	16,404	16,361	22,275	28,880	35,110	53,867	49,272
Lignite/Coal	5,870	6,202	5,667	7,569	8,767	10,033	13,349	18,438	18,024	23,128	28,594	28,330
Renewable*	63,635	65,235	66,958	70,255	69,932	75,122	86,235	95,541	97,142	102,103	103,991	115,268
Total	556,547	555,262	690,142	752,702	789,544	882,955	1,021,960	1,238,894	1,444,642	1,506,442	1,670,738	1,578,193

*Estimate

Source : PTT, EGAT, DOEB, DEDE

Compiled by : Energy Policy and Planning Office (EPPO)

Table 6.1-2Y
Expenditure on Petroleum Product Consumption

Unit : Million Bahts

Energy Type	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997
Gasoline	20,687	21,293	24,699	28,069	32,340	38,062	39,703	44,377	47,775	57,017	64,344	76,622
- Regular	11,798	12,167	13,718	15,175	16,379	19,159	19,215	19,260	18,247	19,572	19,161	19,841
- Premium	8,889	9,126	10,980	12,894	15,961	18,902	20,489	25,118	29,527	37,445	45,183	56,781
Kerosene	875	789	769	730	838	987	1,004	960	969	878	985	951
Diesel	37,225	40,452	44,389	52,631	65,596	79,712	80,493	92,436	94,884	112,987	142,109	158,139
- HSD	36,782	39,885	43,815	51,867	64,833	78,623	79,254	90,891	93,268	111,531	140,747	156,744
- LSD	443	567	574	764	763	1,089	1,238	1,545	1,616	1,457	1,362	1,395
J.P.	8,383	9,120	11,210	12,927	15,610	21,923	24,334	25,896	26,707	28,681	33,993	39,547
Fuel Oil	5,251	5,517	5,582	7,146	8,491	10,138	14,381	12,161	14,739	18,085	20,733	23,515
LPG (Million Kgs.)	6,024	6,695	7,450	8,359	9,129	10,756	11,950	12,910	13,953	15,350	18,233	19,897
Total	78,445	83,866	94,098	109,861	132,004	161,577	171,865	188,741	199,027	232,997	280,397	318,671

Table 6.1-2Y (Cont.)
Expenditure on Petroleum Product Consumption

Unit : Million Bahts

Energy Type	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
Gasoline	83,661	84,184	102,308	102,318	107,765	122,450	141,585	166,787	193,415	204,467	220,348	214,832
- Regular	24,571	26,873	49,214	55,815	62,104	71,232	84,390	100,458	121,885	132,532	138,594	124,046
- Premium	59,090	57,311	53,094	46,503	45,662	51,218	57,195	66,329	71,531	71,935	81,754	90,786
Kerosene	647	613	739	903	963	604	454	520	562	526	593	657
Diesel	137,998	139,458	192,492	203,176	210,375	245,980	285,424	386,712	468,950	478,902	542,811	438,079
- HSD	136,875	138,232	191,153	201,792	208,925	244,615	283,922	385,320	467,443	478,082	542,508	438,079
- LSD	1,123	1,226	1,340	1,384	1,450	1,366	1,502	1,392	1,507	819	303	
J.P.	38,846	39,100	52,845	59,339	58,802	62,995	82,786	105,301	128,856	142,742	175,118	164,897
Fuel Oil	23,646	26,931	36,980	36,194	39,625	45,350	52,239	65,574	68,524	63,754	69,647	52,101
LPG (Million Kgs.)	21,964	19,460	22,547	28,586	34,024	37,933	42,920	49,510	55,153	64,981	81,232	85,148
Total	306,352	309,164	407,912	430,516	451,554	515,313	605,407	774,404	915,461	955,370	1,089,748	955,715

Remarks : Final Energy Consumption
Source : Department of Energy Business
Compiled by : Energy Policy and Planning Office (EPPO)

Energy Value

Table 6.1-3Y
Value of Energy Import

Unit : Million Bahts

Energy Type	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997
Crude Oil	21,375	26,833	21,414	32,593	42,792	39,855	48,644	51,024	55,363	72,122	121,937	166,545
Pet. Products	7,687	13,447	15,643	22,347	38,247	38,005	32,395	35,232	30,098	34,078	33,281	15,922
Natural Gas												
Coal	355	442	516	864	646	719	649	1,019	1,719	2,174	3,985	3,813
Electricity												710
Total Import	29,416	40,722	37,573	55,804	81,685	78,578	81,689	87,276	87,179	108,374	159,203	186,990

Table 6.1-3Y (Cont.)
Value of Energy Import

Unit : Million Bahts

Energy Type	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
Crude Oil	137,100	169,633	285,862	284,373	286,953	346,057	486,627	644,933	753,783	715,789	1,002,667	623,024
Pet. Products	7,025	12,845	36,809	28,814	25,817	31,039	41,533	55,680	62,350	48,317	26,745	13,079
Natural Gas			7,839	30,559	35,073	42,635	46,053	62,827	77,843	78,901	90,506	84,208
Coal	2,068	4,010	5,068	7,489	7,872	9,370	12,275	15,422	18,896	29,656	36,456	36,935
Electricity	2,494	3,431	4,671	4,701	4,474	4,159	5,659	7,114	8,294	7,414	4,540	3,623
Total Import	148,687	189,919	340,250	355,936	360,189	433,260	592,148	785,976	921,166	880,078	1,160,915	760,869

Source : PTT, EGAT, DOEB, DEDE
Compiled by : Energy Policy and Planning Office (EPPO)

Table 6.1-4Y
Value of Energy Export

Unit : Million Bahts

Energy Type	1992	1993	1994	1995	1996	1997	1998	1999	2000
Crude Oil									
Petroleum Products									
Electricity	71	82	100	142	163	188	292	334	329
Total	71	82	100	142	163	188	292	334	329

Table 6.1-4Y (Cont.)
Value of Energy Export

Unit : Million Bahts

Energy Type	2001	2002	2003	2004	2005	2006	2007	2008	2009
Crude Oil	14,449	18,075	29,356	33,883	52,858	56,835	45,812	56,575	27,410
Petroleum Products				86,459	111,534	160,926	159,077	260,384	205,286
Electricity	407	435	499	646	1,325	1,730	2,107	2,253	3,365
Total	14,855	18,510	29,855	120,989	165,718	219,491	206,995	319,212	236,061

Source : PTT, EGAT, DOEB, DEDE
Compiled by : Energy Policy and Planning Office (EPPO)





Energy of Thailand

Chapter 7
ENERGY AND ECONOMICS



บทที่ 7
พลังงานกับเศรษฐกิจ



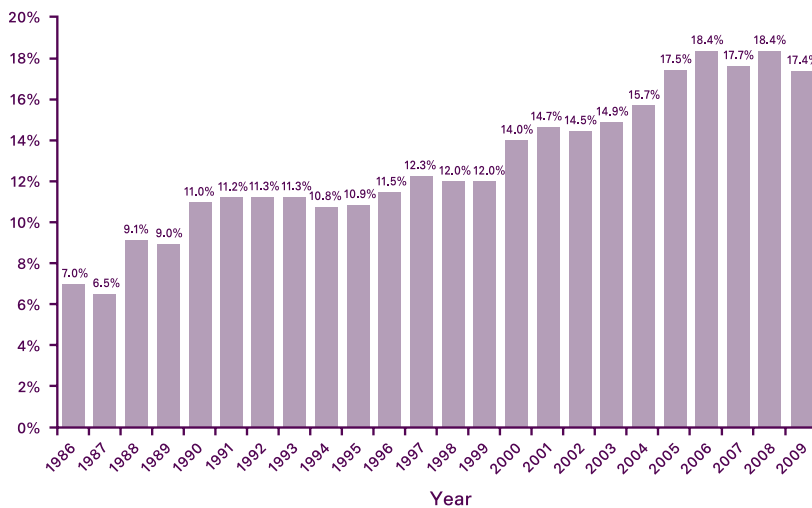
บทที่ 7

พลังงานกับเศรษฐกิจ

อัตราการเจริญเติบโตทางเศรษฐกิจของไทย (GDP) ปี 2009 ลดลงร้อยละ 2.3 ซึ่งเป็นผลจากวิกฤตทางการเงินของสหรัฐอเมริกาช่วงปลายปีที่ผ่านมาและส่งผลต่อเนื่องถึงปีนี้ โดยส่งผลให้ทั้งการส่งออก การนำเข้าสินค้าและบริการ และการท่องเที่ยวของไทยลดลง ทำให้การใช้จ่ายเพื่อการบริโภคของครัวเรือน และการลงทุนภาคเอกชนลดลงมาก โดยเฉพาะอย่างยิ่งในภาคอุตสาหกรรม

มูลค่าการใช้พลังงานต่อ GDP ณ ราคาตลาด คือการเปรียบเทียบสัดส่วนมูลค่าการใช้จ่ายพลังงานต่อรายได้ประชาชาติซึ่งมีแนวโน้มเพิ่มขึ้น โดยในปี 2009 ประเทศไทยมีมูลค่าการใช้จ่ายพลังงานต่อ GDP อยู่ที่ร้อยละ 17 ในขณะที่ปี 1986 มีสัดส่วนอยู่ที่ร้อยละ 7 เท่านั้น ทั้งนี้ในปี 2008 มีสัดส่วนมากที่สุดอยู่ที่ร้อยละ 18 เนื่องจากราคาน้ำมันอยู่ในระดับสูงมาก

Expenditure on Final Energy Consumption : GDP at current Prices



มูลค่าการนำเข้าพลังงานต่อ GDP ณ ราคาตลาด คือการเปรียบเทียบสัดส่วนมูลค่าการนำเข้าพลังงานต่อรายได้ประชาชาติ โดยในช่วงปี 1986-1997 ซึ่งเป็นช่วงก่อนเกิดวิกฤตเศรษฐกิจ ประเทศไทยใช้จ่ายเงินในการนำเข้าพลังงานเฉลี่ยอยู่ที่ร้อยละ 3 ของ GDP เนื่องจากราคาพลังงานอยู่ในระดับต่ำ แต่ในช่วงหลังเกิดวิกฤตเศรษฐกิจราคาน้ำมันดิบปรับตัวสูงขึ้นมาก จึงมีผลทำให้ประเทศไทยต้องสูญเสียเงินตราต่างประเทศเพิ่มขึ้น โดยในปี 2008 ราคาน้ำมันดิบอยู่ในระดับสูง ประเทศไทยจึงต้องใช้จ่ายเงินในการนำเข้าพลังงานสูงถึงร้อยละ 13 ของ GDP

Chapter 7

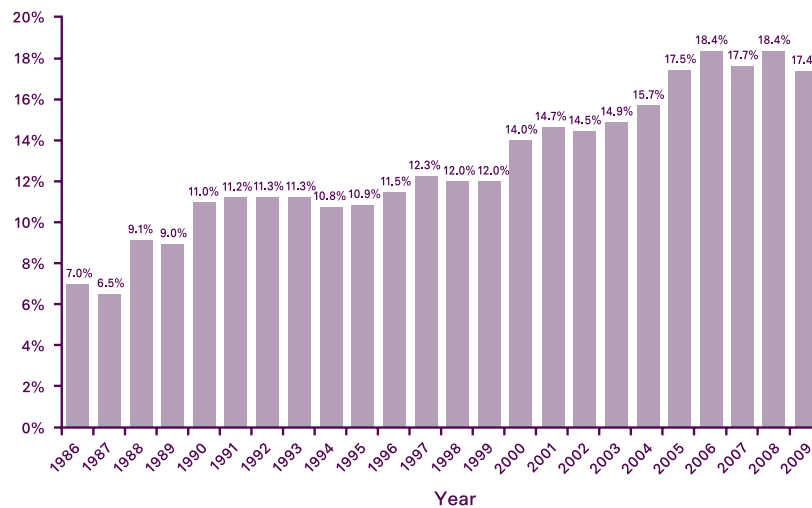
Energy and Economics



Thailand's economic growth rate (GDP) in 2009 shrank by 2.3% due to the impact of financial crisis emerging in the USA in late 2008 which adversely affected global economic conditions over the year. The crisis caused shrinkage in the export and import of Thailand's goods and services. Household expenditures and private sector investment substantially decreased, particularly in the industrial sector.

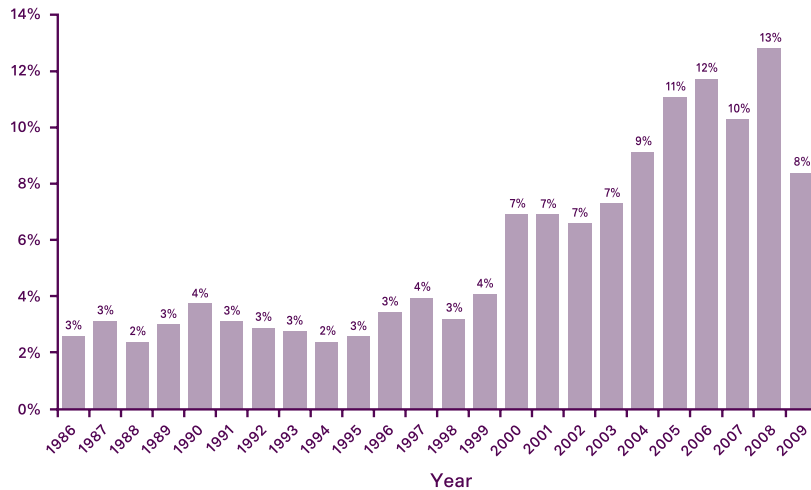
Expenditure on Final Energy Consumption to GDP at Current Prices – the ratio of energy consumption value to the national income, which had been increasing. In 2009, the ratio of energy consumption value to GDP of Thailand was 17% while that in 1986 was only at 7%. The highest ratio ever experienced in Thailand was in the year 2008, i.e. 18%, as oil prices were then excessively high.

Expenditure on Final Energy Consumption : GDP at current Prices



Expenditure on Energy Import to GDP at Current Prices - the ratio of energy import value to the national income. During 1986-1997, prior to the (Asian) economic crisis, Thailand's expenditure on energy import was at an average rate of 3% of the GDP as energy prices were then relatively low. However, after the economic crisis, crude oil prices increased steeply, causing an increasing loss of foreign currency to Thailand. In 2008 the crude oil price was exorbitantly high, causing Thailand to spend on imported energy as high as 13% of the GDP.

Expenditure on Energy Import : GDP at current Prices



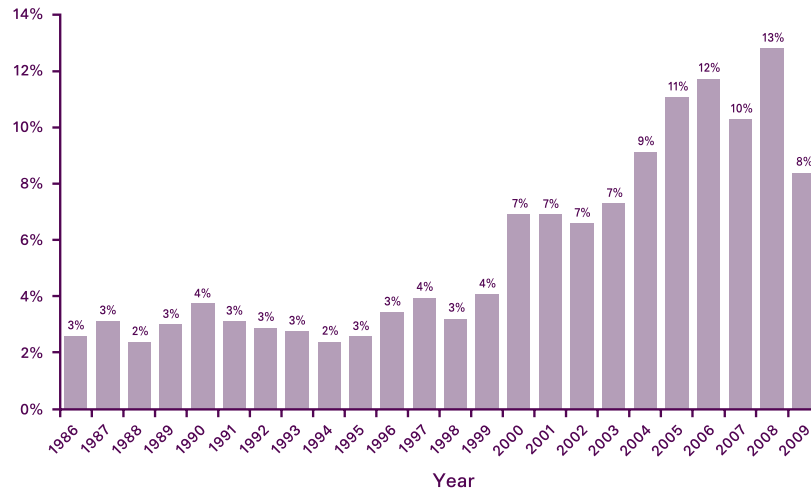
Energy Elasticity (EE) คืออัตราการเปลี่ยนแปลงการใช้พลังงานต่ออัตราการเปลี่ยนแปลง GDP ซึ่งเป็นดัชนีชี้วัดประสิทธิภาพการใช้พลังงาน

ในช่วงปี 1989-2009 ค่า EE ของไทยอยู่ที่ระดับ 1.04 ซึ่งหมายถึงประเทศไทยต้องใช้พลังงานเพิ่มขึ้น 1.04 หน่วย เป็นต้นทุนในการผลิต GDP ให้ได้ผลผลิตเพิ่มขึ้น 1.00 หน่วย โดยในช่วงปี 1989-1999 การใช้พลังงานยังไม่มีประสิทธิภาพมากนัก ค่า EE อยู่ที่ระดับ 1.06 แต่ในช่วงหลังประเทศไทยมีการปรับปรุงประสิทธิภาพการใช้พลังงานมากขึ้น เช่น ส่งเสริมการใช้เครื่องใช้ไฟฟ้าที่ติดฉลากประสิทธิภาพการใช้พลังงานเบอร์ 5 ปรับปรุงเครื่องจักรในโรงงานอุตสาหกรรมและมาตรการประหยัดพลังงาน ทำให้ในช่วงปี 1999-2009 ค่า EE อยู่ที่ระดับ 0.88

Energy Elasticity



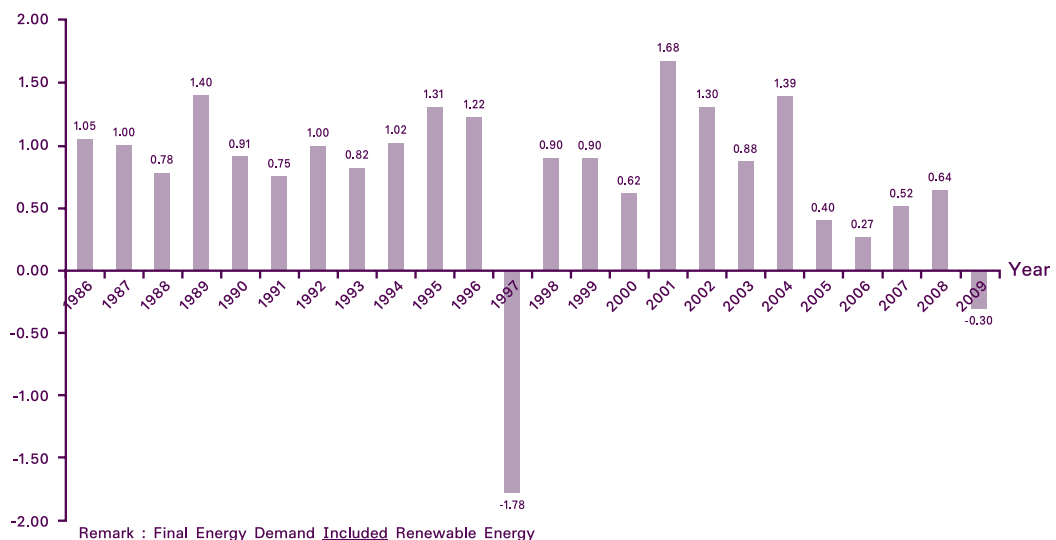
Expenditure on Energy Import : GDP at current Prices



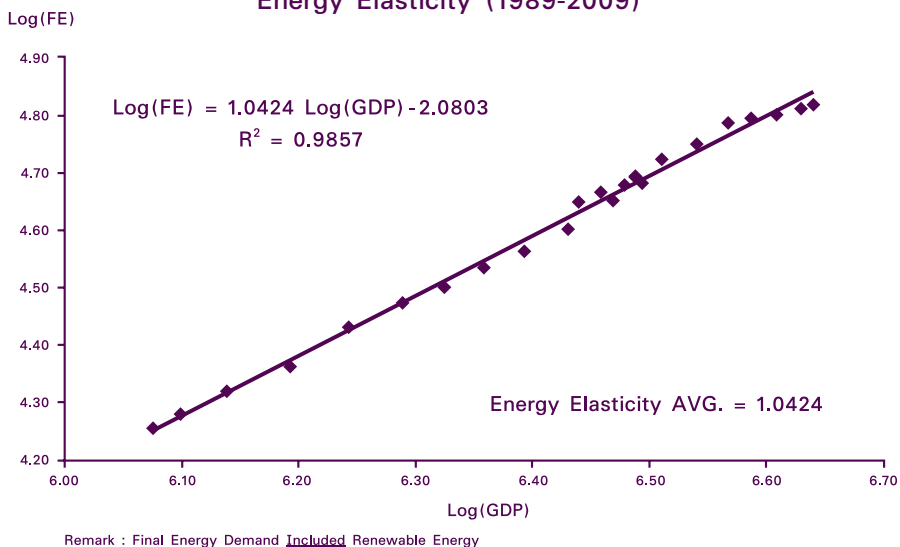
Energy Elasticity (EE) is the percentage change in energy consumption to achieve one percent change in national GDP, which is used as an indicator of energy utilization efficiency.

During 1989-2009, Thailand's EE was at 1.04, which means that Thailand had to increase energy use by 1.04 units, as production capital, so as to achieve an increase in GDP by 1.00 unit. During 1989-1999, energy efficiency had not much been improved, i.e. the EE was at 1.06, but later on Thailand had put greater effort to improve the national energy efficiency. For example, promotion had been made on the use of electrical appliances with energy efficiency labeling No. 5; improvement of machinery/equipment in industrial factories, and application of energy saving measures; these efforts resulted in the improved EE, i.e. at 0.88%, during 1999-2009.

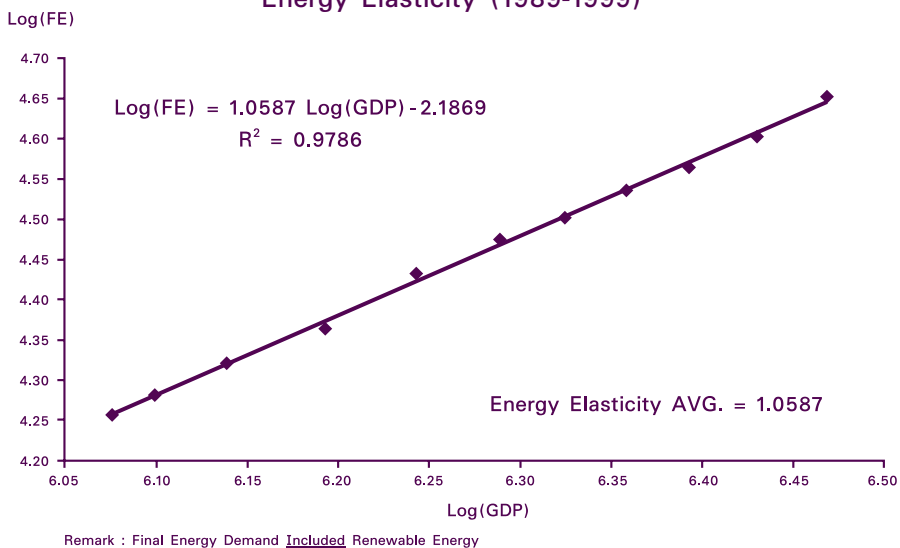
Energy Elasticity



Energy Elasticity (1989-2009)



Energy Elasticity (1989-1999)



Energy Elasticity (1999-2009)

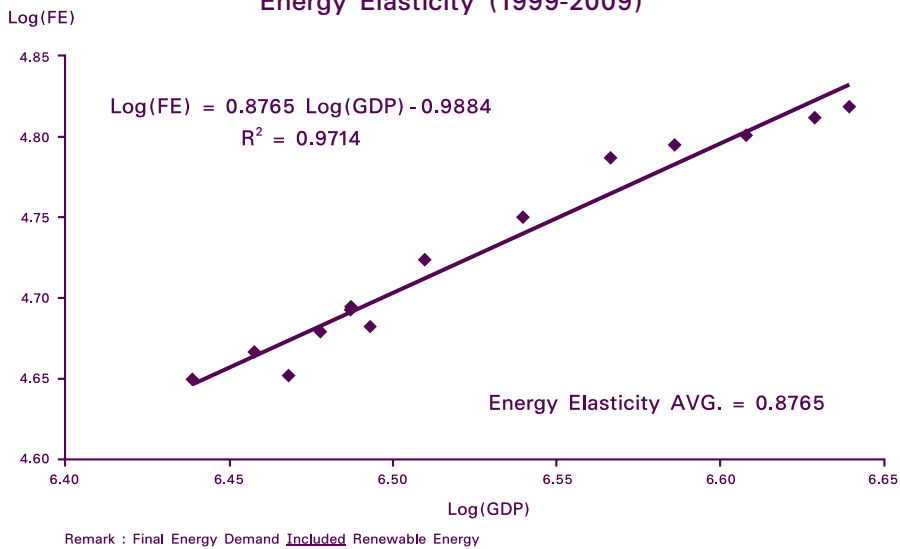


Table 7.1-1
GDP at Constant 1988 Prices

Unit : Million Bahts

	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997
Agriculture	228,191	228,346	252,346	276,569	263,607	282,740	296,277	255,106	265,893	276,590	288,840	286,833
Mining	21,511	24,107	26,599	28,227	31,053	36,085	37,959	40,770	43,841	44,748	52,892	59,973
Manufacturing	294,521	341,750	403,034	467,632	540,932	604,337	672,636	781,865	856,547	958,374	1,021,419	1,036,152
Construction	60,138	66,060	74,449	95,554	116,606	132,494	138,700	150,710	172,036	183,600	196,540	146,138
Electricity	29,890	31,515	35,298	42,259	46,841	51,750	57,115	62,413	69,335	79,054	81,962	86,705
Transportation	92,046	100,585	116,611	128,754	146,796	157,644	172,764	191,420	213,273	239,223	267,255	279,945
Res. and Com.	530,880	584,484	651,467	710,957	799,537	846,812	907,121	988,624	1,072,048	1,160,147	1,206,430	1,176,869
Total	1,257,177	1,376,847	1,559,804	1,749,952	1,945,372	2,111,862	2,282,572	2,470,908	2,692,973	2,941,736	3,115,338	3,072,615
Growth Rate (%)												
Agriculture	0.4	0.1	10.5	9.6	-4.7	7.3	4.8	-2.9	4.2	4.0	4.4	-0.7
Mining	-0.2	12.1	10.3	6.1	10.0	16.2	5.2	7.4	7.5	2.1	18.2	13.4
Manufacturing	9.8	16.0	17.9	16.0	15.7	11.7	11.3	10.7	9.6	11.9	6.6	1.4
Construction	1.5	9.8	12.7	28.3	22.0	13.6	4.7	8.7	14.2	6.7	7.0	-25.6
Electricity	10.9	5.4	12.0	19.7	10.8	10.5	10.4	9.3	11.1	14.0	3.7	5.8
Transportation	7.1	9.3	15.9	10.4	14.0	7.4	9.6	10.8	11.4	12.2	11.7	4.7
Res. and Com.	5.7	10.1	11.5	9.1	12.5	5.9	7.1	9.0	8.4	8.2	4.0	-2.5
Total	5.5	9.5	13.3	12.2	11.2	8.6	8.1	8.3	9.0	9.2	5.9	-1.4

Source : Office of the National Economic and Social Development Board (NESDB)

Table 7.1-1 (Cont.)
GDP at Constant 1988 Prices

Unit : Million Bahts

	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
Agriculture	282,606	289,178	309,948	320,016	322,179	363,033	354,431	347,892	366,842	370,030	383,079	381,132
Mining	56,244	60,865	64,235	64,622	71,741	76,616	80,837	88,081	91,585	95,095	95,698	95,078
Manufacturing	923,602	1,033,431	1,096,168	1,111,457	1,190,807	1,318,279	1,426,338	1,499,882	1,587,709	1,687,276	1,753,865	1,664,422
Construction	90,235	84,060	76,323	76,471	80,615	82,837	88,790	93,809	98,085	100,511	95,190	95,221
Electricity	86,117	88,823	97,570	103,937	110,137	115,195	122,525	129,004	135,114	141,975	147,463	148,742
Transportation	254,462	270,147	290,388	310,058	331,168	340,644	366,290	383,925	407,682	432,036	430,231	420,792
Res. and Com.	1,056,418	1,045,476	1,073,769	1,087,040	1,130,395	1,171,562	1,248,978	1,315,426	1,369,533	1,429,641	1,455,870	1,457,976
Total	2,749,684	2,871,980	3,008,401	3,073,601	3,237,042	3,468,166	3,688,189	3,858,019	4,056,550	4,256,564	4,361,396	4,263,363
Growth Rate (%)												
Agriculture	-1.5	2.3	7.2	3.2	0.7	12.7	-2.4	-1.8	5.4	0.9	3.5	-0.5
Mining	-6.2	8.2	5.5	0.6	11.0	6.8	5.5	9.0	4.0	3.8	0.6	-0.6
Manufacturing	-10.9	11.9	6.1	1.4	7.1	10.7	8.2	5.2	5.9	6.3	3.9	-5.1
Construction	-38.3	-6.8	-9.2	0.2	5.4	2.8	7.2	5.7	4.6	2.5	-5.3	0.03
Electricity	-0.7	3.1	9.8	6.5	6.0	4.6	6.4	5.3	4.7	5.1	3.9	0.9
Transportation	-9.1	6.2	7.5	6.8	6.8	2.9	7.5	4.8	6.2	6.0	-0.4	-2.2
Res. and Com.	-10.2	-1.0	2.7	1.2	4.0	3.6	6.6	5.3	4.1	4.4	1.8	0.1
Total	-10.5	4.4	4.8	2.2	5.3	7.1	6.3	4.6	5.1	4.9	2.5	-2.2

Source : Office of the National Economic and Social Development Board (NESDB)

**Table 7.1-2
Population**

Unit : Persons

Year	Population	Growth (%)
1986	52,511,000	1.8
1987	53,427,000	1.7
1988	54,326,000	1.7
1989	55,214,000	1.6
1990	55,839,000	1.1
1991	56,574,000	1.3
1992	57,294,000	1.3
1993	58,010,000	1.2
1994	58,713,000	1.2
1995	59,401,000	1.2
1996	60,003,000	1.0
1997	60,602,000	1.0
1998	61,201,000	1.0
1999	61,806,000	1.0
2000	62,236,000	0.7
2001	62,836,000	1.0
2002	63,419,000	0.9
2003	63,982,000	0.9
2004	64,531,000	0.9
2005	65,099,000	0.9
2006	65,574,000	0.7
2007	66,041,000	0.7
2008	66,482,000	0.7
2009	66,903,000	0.6

Source : Office of the National Economic and Social Development Board (NESDB)

Table 7.1-3
Industrial Index

	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
Jan	34.9	39.4	48.1	52.1	60.2	65.3	71.1	80.2	83.3	90.6	94.5	86.7	85.8
Feb	36.0	42.5	47.9	53.4	60.3	65.8	76.7	79.0	82.0	93.6	94.0	88.8	88.0
Mar	35.5	41.7	50.0	56.3	66.0	71.0	77.7	86.3	92.5	99.6	105.7	90.0	97.8
Apr	31.1	36.1	42.6	49.1	56.5	61.5	69.8	73.9	80.5	88.3	93.2	83.3	92.2
May	31.5	36.8	44.8	51.7	58.0	60.2	73.2	76.3	83.7	91.3	95.5	81.3	88.2
Jun	30.6	37.8	45.5	52.2	54.1	63.6	72.9	79.6	83.3	87.7	92.2	84.6	93.1
Jul	32.3	36.9	44.0	52.0	57.6	64.9	73.6	76.1	82.8	88.0	92.0	82.5	94.0
Aug	29.3	37.1	45.5	52.3	56.1	63.7	68.6	77.3	82.0	90.5	87.4	79.5	94.1
Sep	30.0	38.3	44.1	51.0	54.2	65.0	73.5	78.5	81.0	90.0	86.7	77.6	94.5
Oct	31.6	37.8	44.7	52.1	54.8	65.6	73.6	79.5	81.5	93.1	87.7	83.7	97.9
Nov	32.2	39.7	46.3	54.5	56.7	68.0	73.1	82.2	86.9	93.1	84.7	77.7	101.0
Dec	35.7	44.2	48.7	54.6	58.1	71.3	76.5	81.7	84.9	90.9	89.8	85.2	98.0
Total	32.5	39.0	46.0	52.6	57.7	65.5	73.4	79.2	83.7	91.4	91.9	83.4	93.7

	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
Jan	93.5	100.5	102.7	123.5	139.5	147.8	156.4	170.9	194.8	153.5
Feb	98.0	102.4	104.3	119.2	141.5	143.4	162.5	170.9	196.4	157.0
Mar	106.9	110.4	119.2	136.3	148.3	165.5	182.2	189.2	206.6	176.6
Apr	93.8	95.1	103.7	123.6	135.0	147.3	153.2	162.9	179.2	162.0
May	99.1	101.9	113.4	126.6	138.5	153.5	167.0	177.3	193.5	174.6
Jun	100.6	104.7	111.0	125.2	138.6	158.1	168.8	175.5	195.3	179.3
Jul	96.9	100.5	108.4	124.0	140.6	152.8	162.3	174.7	194.0	180.5
Aug	98.1	102.6	113.8	121.5	134.3	154.3	166.7	183.7	197.9	178.3
Sep	103.2	103.8	113.4	128.6	146.8	163.1	172.0	187.3	195.4	199.3
Oct	102.6	106.1	117.8	134.5	148.4	159.9	169.0	190.3	194.8	196.0
Nov	104.3	102.5	120.8	129.3	146.6	158.1	170.8	191.5	176.6	193.4
Dec	103.1	102.2	115.7	140.6	153.5	162.8	173.4	193.8	157.8	214.9
Total	100.0	102.7	112.0	127.7	142.6	155.6	167.0	180.7	190.2	180.4

Source : Bank of Thailand (BOT)

Table 7.1-4
Industrial Capacity Utilization Ratios

	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
Jan	78.9	76.0	73.1	60.1	62.5	63.9	64.9	60.0	67.2	72.7	71.8	72.8	72.8	73.8	56.8
Feb	74.2	75.5	70.9	58.6	61.0	66.3	63.1	59.3	63.7	70.8	66.6	72.3	69.6	71.0	54.6
Mar	85.7	81.1	80.8	63.4	69.7	73.7	70.5	68.4	74.6	75.0	77.5	80.2	76.1	75.9	62.2
Apr	74.8	74.1	70.5	58.7	63.0	62.4	59.7	59.8	66.6	69.5	69.8	69.4	68.4	66.6	56.5
May	78.4	73.5	73.1	59.3	63.0	69.0	65.0	66.4	68.8	72.9	73.6	76.2	75.1	71.1	59.6
Jun	79.4	71.1	71.1	60.4	66.2	70.3	65.8	64.6	68.0	71.2	72.0	75.2	73.3	70.0	59.3
Jul	79.9	72.1	70.9	57.7	66.1	66.4	63.0	61.8	67.1	72.4	71.4	73.8	71.2	68.9	60.8
Aug	77.5	74.8	67.7	55.8	66.0	67.6	64.4	65.4	66.9	69.9	70.9	74.2	72.2	68.2	59.3
Sep	76.6	74.7	67.1	54.6	65.3	71.4	66.7	65.8	72.6	70.1	74.2	73.3	71.5	66.7	64.4
Oct	76.5	76.6	65.6	60.0	67.6	70.6	65.8	66.6	74.6	71.7	72.6	72.6	72.8	65.4	65.1
Nov	79.5	76.6	62.5	54.6	70.3	72.3	62.8	69.7	70.4	71.3	70.6	72.7	72.1	57.8	64.0
Dec	78.7	75.3	65.8	61.7	67.9	68.6	62.0	66.1	77.5	73.1	73.7	74.3	74.4	57.3	69.0
Total	78.3	75.1	69.9	58.7	65.7	68.6	64.5	64.5	69.8	71.7	72.1	73.9	72.5	67.7	61.0

Source : Bank of Thailand (BOT)

Table 7.1-5
Sale of Vehicles

Year	Sale of Vehicles (Unit)			Growth Rate (%)				
	Passenger	Commercial	Motercycle	Total	Passenger	Commercial	Motercycle	Total
1986	21,950	56,531	249,752	328,233	-0.9	-11.6	0.7	-1.8
1987	26,909	74,451	310,579	411,939	22.6	31.7	24.4	25.5
1988	39,232	107,763	494,586	641,581	45.8	44.7	59.3	55.8
1989	47,705	160,436	588,278	796,419	21.6	48.9	18.9	24.1
1990	65,813	238,297	732,848	1,036,958	38.0	48.5	24.6	30.2
1991	66,778	202,052	649,727	918,557	1.5	-15.2	-11.3	-11.4
1992	121,453	241,583	868,157	1,231,193	81.9	19.6	33.6	34.0
1993	172,452	282,548	1,115,946	1,570,946	42.0	17.0	28.5	27.6
1994	154,500	331,345	1,333,041	1,818,886	-10.4	17.3	19.5	15.8
1995	158,701	409,915	1,503,872	2,072,488	2.7	23.7	12.8	13.9
1996	173,606	415,262	1,242,551	1,831,419	9.4	1.3	-17.4	-11.6
1997	132,070	231,198	927,365	1,290,633	-23.9	-44.3	-25.4	-29.5
1998	46,399	97,844	490,829	635,072	-64.9	-57.7	-47.1	-50.8
1999	66,851	151,508	593,676	812,035	44.1	54.9	21.0	27.9
2000	83,127	179,126	796,292	1,058,545	24.4	18.2	34.1	30.4
2001	104,559	192,577	926,460	1,223,596	25.8	7.5	16.4	15.6
2002	126,330	283,073	1,317,000	1,726,403	20.8	47.0	42.2	41.1
2003	179,418	354,037	1,687,000	2,220,455	42.0	25.1	28.1	28.6
2004	209,114	416,764	1,951,000	2,576,878	16.6	17.7	15.7	16.1
2005	185,761	517,677	2,053,000	2,756,438	-11.2	24.2	5.2	7.0
2006	191,405	490,603	1,921,000	2,603,008	3.0	-5.2	-6.4	-5.6
2007	169,559	461,692	1,558,000	2,189,251	-11.4	-5.9	-18.9	-15.9
2008	225,751	388,333	1,749,000	2,363,084	33.1	-15.9	12.3	7.9
2009	235,169	313,703	1,519,000	2,067,872	4.2	-19.2	-13.2	-12.5

Source : Bank of Thailand (BOT)

Compiled by : Energy Policy and Planning Office (EPPO)

Table 7.1-6
GDP, Energy, Import, and Export of Goods

	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997
GDP at Current Prices (Billion Bahts)	1,133.4	1,299.9	1,559.8	1,857.0	2,183.5	2,506.6	2,830.9	3,165.2	3,629.3	4,186.2	4,611.0	4,732.6
GDP at 1988 Prices (Billion Bahts)	1,257.2	1,376.8	1,559.8	1,750.0	1,945.4	2,111.9	2,282.6	2,470.9	2,693.0	2,941.7	3,115.3	3,072.6
Export (Billion Bahts)	233.4	299.9	403.6	516.3	589.8	725.6	824.6	935.9	1,137.6	1,406.3	1,412.1	1,806.7
Import (Billion Bahts)	241.4	334.2	513.1	662.7	844.4	958.8	1,033.2	1,166.6	1,369.1	1,763.6	1,832.8	1,924.3
Consumer Goods	18.2	25.1	38.6	53.4	71.7	82.8	103.7	114.4	144.8	133.3	136.6	151.0
Raw Materials and Intermediate Goods	85.9	119.0	182.7	237.6	285.0	329.6	331.3	349.4	394.6	767.2	763.3	816.0
Capital Goods	94.6	131.0	201.1	242.3	327.7	385.5	426.0	501.1	613.8	583.5	601.7	661.8
Other Imports	42.7	59.1	90.7	129.4	160.0	161.0	172.2	201.7	215.9	279.6	331.3	295.4
Energy	29.4	40.7	37.6	55.8	81.7	78.6	81.7	87.3	87.2	108.4	159.2	187.0
Crude	21.4	26.8	21.4	32.6	42.8	39.9	48.6	51.0	55.4	72.1	121.9	166.5
Petroleum Products	7.7	13.4	15.6	22.3	38.2	38.0	32.4	35.2	30.1	34.1	33.3	15.9
Natural Gas												
Coal	0.4	0.4	0.5	0.9	0.6	0.7	0.6	1.0	1.7	2.2	4.0	3.8
Electricity										0.7		
Others	13.2	18.3	53.1	73.6	78.4	82.4	90.5	114.4	128.7	171.2	172.1	108.4
Net Trade (Exports - Imports) (Billion Bahts)	-8.0	-34.4	-109.5	-146.4	-254.6	-233.2	-208.6	-230.7	-231.5	-357.3	-420.7	-117.6
Final Energy Consumption (Billion Bahts)	79.0	84.3	140.3	163.8	238.3	279.3	323.8	357.5	390.3	455.0	530.4	580.8
Petroleum	78.4	83.9	94.1	109.9	132.0	161.6	171.9	188.7	199.0	233.0	280.4	318.7
Electricity			45.5	52.7	62.5	73.2	87.4	98.3	111.6	136.3	153.5	162.3
Natural Gas	0.3	0.1	0.3	0.3	0.6	0.8	1.2	1.5	2.1	3.1	3.4	4.7
Coal/Lignite	0.3	0.3	0.4	0.9	2.1	2.5	2.8	3.6	4.8	5.8	7.5	7.8
Renewable Energy					41.2	41.1	60.5	65.3	72.7	76.8	85.5	87.3
Final Energy Consumption (Ktoe)	19,634.0	21,599.0	23,746.0	27,863.0	30,668.0	32,559.0	35,332.0	36,992.3	40,359.6	44,894.5	48,754.9	50,122.0
Petroleum	10,063.0	11,302.0	12,729.0	15,026.0	16,742.0	17,471.0	19,053.0	21,128.0	23,337.0	26,134.0	28,381.0	28,983.0
Electricity	1,878.0	2,121.0	2,395.0	2,793.0	3,255.0	3,770.0	4,204.0	4,706.0	5,329.0	6,017.0	6,678.0	7,101.0
Natural Gas	7.0	16.0	43.0	98.0	259.0	338.0	446.0	507.0	599.0	803.0	853.0	1,047.0
Coal/Lignite	488.0	698.0	853.0	1,142.0	1,454.0	1,630.0	1,811.0	2,598.0	3,284.0	3,814.0	4,633.0	4,492.0
Renewable Energy	7,198.0	7,462.0	7,726.0	8,804.0	8,958.0	9,350.0	9,818.0	8,053.3	7,810.6	8,126.5	8,209.9	8,499.0

Analysis

	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997
Growth Rate (%)												
GDP (constant Prices)	5.5	9.5	13.3	12.2	11.2	8.6	8.1	8.3	9.0	9.2	5.9	-1.4
Final Energy Consumption (Ktoe) : FEC	6.5	10.0	9.9	17.3	10.1	6.2	8.5	4.7	9.1	11.2	8.6	2.8
FEC : GDP (toe : M.Bahts)	15.6	15.7	15.2	15.9	15.8	15.4	15.5	15.0	15.0	15.3	15.7	16.3
Ratios (%)												
FEC Value : GDP at current Market Prices	7.0	6.5	9.0	8.8	10.9	11.1	11.4	11.3	10.8	10.9	11.5	12.3
Value of Imported Energy : GDP at current Market Prices	2.6	3.1	2.4	3.0	3.7	3.1	2.9	2.8	2.4	2.6	3.5	4.0
Value of Imported Energy : Total Import	12.2	12.2	7.3	8.4	9.7	8.2	7.9	7.5	6.4	6.1	8.7	9.7
Value of Imported Petroleum and Natural Gas : Total Import	12.0	12.1	7.2	8.3	9.6	8.1	7.8	7.4	6.2	6.0	8.5	9.5

Source : NESDB, BOT, EPO

Table 7.1-6 (Cont.)
GDP, Energy, Import, and Export of Goods

	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
GDP at Current Prices (Billion Bahts)	4,626.4	4,637.1	4,922.7	5,133.5	5,450.6	5,917.4	6,489.5	7,092.9	7,850.2	8,529.8	9,075.5	9,050.7
GDP at 1988 Prices (Billion Bahts)	2,749.7	2,872.0	3,008.4	3,073.6	3,237.0	3,468.2	3,688.2	3,858.0	4,056.6	4,256.6	4,361.4	4,263.4
Export (Billion Bahts)	2,248.3	2,215.2	2,773.8	2,884.7	2,923.9	3,325.6	3,874.8	4,439.3	4,946.5	5,302.1	5,851.4	5,197.1
Import (Billion Bahts)	1,774.1	1,907.4	2,494.1	2,752.3	2,774.8	3,138.8	3,801.1	4,754.0	4,942.9	4,870.2	5,946.3	4,605.2
Consumer Goods	145.7	157.5	205.7	236.7	247.9	264.7	301.3	337.2	370.6	382.2	460.0	442.6
Raw Materials and Intermediate Goods	870.6	932.6	1,183.1	1,199.3	1,236.3	1,380.2	1,690.7	1,985.6	2,003.2	2,089.8	2,442.6	1,778.5
Capital Goods	548.8	538.5	679.5	837.1	810.1	916.3	1,039.5	1,288.0	1,326.9	1,246.0	1,414.7	1,231.2
Other Imports	209.0	278.8	425.8	479.2	480.6	577.6	769.5	1,143.2	1,242.2	1,152.2	1,629.0	1,152.9
Energy	148.7	189.9	340.2	355.9	360.2	433.3	592.1	786.0	921.2	880.1	1,160.9	760.9
Crude	137.1	169.6	285.9	284.4	287.0	346.1	486.6	644.9	753.8	715.8	1,002.7	623.0
Petroleum Products	7.0	12.8	36.8	28.8	25.8	31.0	41.5	55.7	62.4	48.3	26.7	13.1
Natural Gas												
Natural Gas												
Coal	2.1	4.0	5.1	7.5	7.9	9.4	12.3	15.4	18.9	78.9	90.5	36.9
Electricity												
Electricity	2.5	3.4	4.7	4.7	4.5	4.2	5.7	7.1	8.3	7.4	4.5	3.6
Others	60.3	88.8	85.6	123.3	120.4	144.3	177.4	357.3	321.1	272.2	468.1	392.0
Net Trade (Exports - Imports) (Billion Bahts)	474.3	307.8	279.7	132.4	149.1	186.9	73.8	-314.7	3.6	431.9	-94.9	592.0
Final Energy Consumption (Billion Bahts)	556.7	555.6	689.9	753.0	789.6	882.8	1,021.9	1,238.9	1,444.6	1,506.4	1,671.7	1,578.2
Petroleum	306.8	309.7	407.9	430.5	451.6	515.3	605.4	774.4	915.5	955.4	1,090.7	955.7
Electricity	175.7	168.1	199.3	233.0	245.9	266.1	300.6	328.2	385.1	390.7	394.5	429.6
Natural Gas	4.6	5.9	10.3	11.4	13.4	16.4	16.4	22.3	28.9	35.1	53.9	49.3
Coal/Lignite	6.1	6.5	5.4	7.9	8.8	9.9	13.3	18.4	18.0	23.1	28.6	28.3
Renewable Energy	63.6	65.2	67.0	70.3	69.9	75.1	86.2	95.5	97.1	102.1	104.0	115.3
Final Energy Consumption (Ktoe)	45,467.0	47,169.0	47,895.0	49,291.0	52,958.0	56,294.0	61,671.0	63,061.0	62,904.0	65,950.0	67,256.0	69,177.0
Petroleum	26,215.0	26,845.0	26,716.0	27,290.0	28,898.0	30,533.0	33,093.0	32,621.0	31,823.0	32,534.0	31,534.0	31,959.0
Electricity	7,036.0	7,145.0	7,704.0	8,183.0	8,741.0	9,345.0	10,095.0	10,664.0	11,145.0	11,649.0	11,833.0	11,836.0
Natural Gas	978.0	1,282.0	1,818.0	1,959.0	2,133.0	2,303.0	2,713.0	2,763.0	2,959.0	3,683.0	4,361.0	5,267.0
Coal/Lignite	3,353.0	3,575.0	3,058.0	3,416.0	4,143.0	4,362.0	5,254.0	6,189.0	5,984.0	6,439.0	7,283.0	7,631.0
Renewable Energy	7,885.0	8,322.0	8,599.0	8,443.0	9,043.0	9,751.0	10,516.0	10,824.0	10,993.0	11,645.0	12,245.0	12,484.0

Analysis

	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
Growth Rate (%)												
GDP (constant Prices)	-10.5	4.4	4.7	2.2	5.3	7.1	6.3	4.6	5.1	4.9	2.5	-2.2
Final Energy Consumption (Ktoe) : FEC	-9.3	3.7	1.5	2.9	7.4	6.3	9.6	2.3	-0.2	4.8	2.0	2.9
FEC : GDP (toe : M.Bahts)	16.5	16.4	15.9	16.0	16.4	16.2	16.7	16.3	15.5	15.5	15.4	16.2
Ratios (%)												
FEC Value : GDP at current Market Prices	12.0	12.0	14.0	14.7	14.5	14.9	15.7	17.5	18.4	17.7	18.4	17.4
Value of Imported Energy : GDP at current Market Prices	3.2	4.1	6.9	6.9	6.6	7.3	9.1	11.1	11.7	10.3	12.8	8.4
Value of Imported Energy : Total Import	8.4	10.0	13.6	12.9	13.0	13.8	15.6	16.5	18.6	18.1	19.5	16.5
Value of Imported Petroleum and Natural Gas : Total Import	8.1	9.6	13.3	12.5	12.5	13.4	15.1	16.1	18.1	17.3	18.8	15.6

Source : NESDB, BOT, EPPD

Table 7.2.1
Final Energy Consumption per Capita

	1986	1987	1988	1989	1990	1991	1992	1993
GDP at Current Prices (Billion Bahts)	1,133.4	1,299.9	1,559.8	1,857.0	2,183.5	2,506.6	2,830.9	3,165.2
GDP at 1988 Prices (Billion Bahts)	1,257.2	1,376.8	1,559.8	1,750.0	1,945.4	2,111.9	2,282.6	2,470.9
Population (Million Persons)	52.5	53.4	54.3	55.2	55.8	56.6	57.3	58.0
Electricity Consumption (GWh)	22,034.4	24,894.2	28,110.4	32,772.2	38,203.0	44,238.9	49,331.2	55,231.3
Export (Billion Bahts)	233.4	299.9	403.6	516.3	589.8	725.6	824.6	935.9
Import (Billion Bahts)	241.4	334.2	513.1	662.7	844.4	958.8	1,033.2	1,166.6
Goods and Services	211.9	293.5	475.5	606.9	762.8	880.3	951.6	1,079.3
Energy	29.4	40.7	37.6	55.8	81.7	78.6	81.7	87.3
Crude	21.4	26.8	21.4	32.6	42.8	39.9	48.6	51.0
Petroleum Products	7.7	13.4	15.6	22.3	38.2	38.0	32.4	35.2
Natural Gas								
Coal	0.4	0.4	0.5	0.9	0.6	0.7	0.6	1.0
Electricity								
Final Energy Consumption (Billion Bahts)	79.0	84.3	140.3	163.8	238.3	279.3	323.8	357.5
Petroleum	78.4	83.9	94.1	109.9	132.0	161.6	171.9	188.7
Electricity			45.5	52.7	62.5	73.2	87.4	98.3
Natural Gas	0.3	0.1	0.3	0.3	0.6	0.8	1.2	1.5
Coal/Lignite	0.3	0.3	0.4	0.9	2.1	2.5	2.8	3.6
Renewable Energy					41.2	41.1	60.5	65.3
Final Energy Consumption (Ktoe)	19,634.0	21,599.0	23,746.0	27,863.0	30,668.0	32,559.0	35,332.0	36,992.3
Petroleum	10,063.0	11,302.0	12,729.0	15,026.0	16,742.0	17,471.0	19,053.0	21,128.0
Electricity	1,878.0	2,121.0	2,395.0	2,793.0	3,255.0	3,770.0	4,204.0	4,706.0
Natural Gas	7.0	16.0	43.0	98.0	259.0	338.0	446.0	507.0
Coal/Lignite	488.0	698.0	853.0	1,142.0	1,454.0	1,630.0	1,811.0	2,598.0
Renewable Energy	7,198.0	7,462.0	7,726.0	8,804.0	8,958.0	9,350.0	9,818.0	8,053.3

Analysis

	1986	1987	1988	1989	1990	1991	1992	1993
Growth Rate (%)								
GDP (constant Prices)	5.5	9.5	13.3	12.2	11.2	8.6	8.1	8.3
Final Energy Consumption (Ktoe) : FEC	6.5	10.0	9.9	17.3	10.1	6.2	8.5	4.7
FEC : GDP (toe : M.Bahts)	15.6	15.7	15.2	15.9	15.8	15.4	15.5	15.0
Ratios (%)								
FEC per Capita (toe/Person)	0.37	0.40	0.44	0.50	0.55	0.58	0.62	0.64
Electricity per Capita (Kwh/Person)	419.6	465.9	517.4	593.5	684.2	782.0	861.0	952.1
FEC Value : GDP at current Market Prices	7.0	6.5	9.0	8.8	10.9	11.1	11.4	11.3
Value of Imported Energy : GDP at current Market Prices	2.6	3.1	2.4	3.0	3.7	3.1	2.9	2.8
Value of Imported Energy : Total Import	12.2	12.2	7.3	8.4	9.7	8.2	7.9	7.5
Value of Imported Petroleum : Total Import	12.0	12.1	7.2	8.3	9.6	8.1	7.8	7.4

Source : NESDB, BOT, EPPD

Table 7.2.1 (Cont.)
Final Energy Consumption per Capita

	1994	1995	1996	1997	1998	1999	2000	2001
GDP at Current Prices (Billion Bahts)	3,629.3	4,186.2	4,611.0	4,732.6	4,626.4	4,637.1	4,922.7	5,133.5
GDP at 1988 Prices (Billion Bahts)	2,693.0	2,941.7	3,115.3	3,072.6	2,749.7	2,872.0	3,008.4	3,073.6
Population (Million Persons)	58.7	59.4	60.0	60.6	61.2	61.8	62.2	62.8
Electricity Consumption (GWh)	62,558.0	70,870.3	77,083.0	81,998.0	79,899.6	80,985.5	87,747.1	93,020.7
Export (Billion Bahts)	1,137.6	1,406.3	1,412.1	1,806.7	2,248.3	2,215.2	2,773.8	2,884.7
Import (Billion Bahts)	1,369.1	1,763.6	1,832.8	1,924.3	1,774.1	1,907.4	2,494.1	2,752.3
Goods and Services	1,281.9	1,655.2	1,673.6	1,737.3	1,625.4	1,717.5	2,153.9	2,396.4
Energy	87.2	108.4	159.2	187.0	148.7	189.9	340.2	355.9
Crude	55.4	72.1	121.9	166.5	137.1	169.6	285.9	284.4
Petroleum Products	30.1	34.1	33.3	15.9	7.0	12.8	36.8	28.8
Natural Gas							7.8	30.6
Coal	1.7	2.2	4.0	3.8	2.1	4.0	5.1	7.5
Electricity				0.7	2.5	3.4	4.7	4.7
Final Energy Consumption (Billion Bahts)	390.3	455.0	530.4	580.8	556.7	555.6	689.9	753.0
Petroleum	199.0	233.0	280.4	318.7	306.8	309.7	407.9	430.5
Electricity	111.6	136.3	153.5	162.3	175.7	168.1	199.3	233.0
Natural Gas	2.1	3.1	3.4	4.7	4.6	5.9	10.3	11.4
Coal/Lignite	4.8	5.8	7.5	7.8	6.1	6.5	5.4	7.9
Renewable Energy	72.7	76.8	85.5	87.3	63.6	65.2	67.0	70.3
Final Energy Consumption (Ktoe)	40,359.6	44,894.5	48,754.9	50,122.0	45,467.0	47,169.0	47,895.0	49,291.0
Petroleum	23,337.0	26,134.0	28,381.0	28,983.0	26,215.0	26,845.0	26,716.0	27,290.0
Electricity	5,329.0	6,017.0	6,678.0	7,101.0	7,036.0	7,145.0	7,704.0	8,183.0
Natural Gas	599.0	803.0	853.0	1,047.0	978.0	1,282.0	1,818.0	1,959.0
Coal/Lignite	3,284.0	3,814.0	4,633.0	4,492.0	3,353.0	3,575.0	3,058.0	3,416.0
Renewable Energy	7,810.6	8,126.5	8,209.9	8,499.0	7,885.0	8,322.0	8,599.0	8,443.0

Analysis

	1994	1995	1996	1997	1998	1999	2000	2001
Growth Rate (%)								
GDP (constant Prices)	9.0	9.2	5.9	-1.4	-10.5	4.4	4.8	2.2
Final Energy Consumption (Ktoe) : FEC	9.1	11.2	8.6	2.8	-9.3	3.7	1.5	2.9
FEC : GDP (toe : M.Bahts)	15.0	15.3	15.6	16.3	16.5	16.4	15.9	16.0
Ratios (%)								
FEC per Capita (toe/Person)	0.69	0.76	0.81	0.83	0.74	0.76	0.77	0.78
Electricity per Capita (Kwh/Person)	1,065.5	1,193.1	1,284.7	1,353.1	1,305.5	1,310.3	1,409.9	1,480.4
FEC Value : GDP at current Market Prices	10.8	10.9	11.5	12.3	12.0	12.0	14.0	14.7
Value of Imported Energy : GDP at current Market Prices	2.4	2.6	3.5	4.0	3.2	4.1	6.9	6.9
Value of Imported Energy : Total Import	6.4	6.1	8.7	9.7	8.4	10.0	13.6	12.9
Value of Imported Petroleum : Total Import	6.2	6.0	8.5	9.5	8.1	9.6	12.9	11.4

Source : NESDB, BOT, EPP0

Table 7.2.1 (Cont.)
Final Energy Consumption per Capita

	2002	2003	2004	2005	2006	2007	2008	2009
GDP at Current Prices (Billion Bahts)	5,450.6	5,917.4	6,489.5	7,092.9	7,850.2	8,529.8	9,075.5	9,050.7
GDP at 1988 Prices (Billion Bahts)	3,237.0	3,468.2	3,688.2	3,858.0	4,056.6	4,256.6	4,361.4	4,263.4
Population (Million Persons)	63.4	64.0	64.5	65.1	65.6	66.0	66.5	66.9
Electricity Consumption (GWh)	99,407.1	106,207.8	114,325.7	120,637.4	127,237.2	132,492.1	134,411.8	134,792.9
Export (Billion Bahts)	2,923.9	3,325.6	3,874.8	4,439.3	4,946.5	5,302.1	5,851.4	5,197.1
Import (Billion Bahts)	2,774.8	3,138.8	3,801.1	4,754.0	4,942.9	4,870.2	5,946.3	4,605.2
Goods and Services	2,414.7	2,705.5	3,208.9	3,968.0	4,021.8	3,990.1	4,785.4	3,844.3
Energy	360.2	433.3	592.1	786.0	921.2	880.1	1,160.9	760.9
Crude	287.0	346.1	486.6	644.9	753.8	715.8	1,002.7	623.0
Petroleum Products	25.8	31.0	41.5	55.7	62.4	48.3	26.7	13.1
Natural Gas	35.1	42.6	46.1	62.8	77.8	78.9	90.5	84.2
Coal	7.9	9.4	12.3	15.4	18.9	29.7	36.5	36.9
Electricity	4.5	4.2	5.7	7.1	8.3	7.4	4.5	3.6
Final Energy Consumption (Billion Bahts)	789.6	882.8	1,021.9	1,238.9	1,444.6	1,506.4	1,671.7	1,578.2
Petroleum	451.6	515.3	605.4	774.4	915.5	955.4	1,090.7	955.7
Electricity	245.9	266.1	300.6	328.2	385.1	390.7	394.5	429.6
Natural Gas	13.4	16.4	16.4	22.3	28.9	35.1	53.9	49.3
Coal/Lignite	8.8	9.9	13.3	18.4	18.0	23.1	28.6	28.3
Renewable Energy	69.9	75.1	86.2	95.5	97.1	102.1	104.0	115.3
Final Energy Consumption (Ktoe)	52,958.0	56,294.0	61,671.0	63,061.0	62,904.0	65,950.0	67,256.0	69,177.0
Petroleum	28,898.0	30,533.0	33,093.0	32,621.0	31,823.0	32,534.0	31,534.0	31,959.0
Electricity	8,741.0	9,345.0	10,095.0	10,664.0	11,145.0	11,649.0	11,833.0	11,836.0
Natural Gas	2,133.0	2,303.0	2,713.0	2,763.0	2,959.0	3,683.0	4,361.0	5,267.0
Coal/Lignite	4,143.0	4,362.0	5,254.0	6,189.0	5,984.0	6,439.0	7,283.0	7,631.0
Renewable Energy	9,043.0	9,751.0	10,516.0	10,824.0	10,993.0	11,645.0	12,245.0	12,484.0

Analysis

	2002	2003	2004	2005	2006	2007	2008	2009
Growth Rate (%)								
GDP (constant Prices)	5.3	7.1	6.3	4.6	5.1	4.9	2.5	-2.2
Final Energy Consumption (Ktoe) : FEC	7.4	6.3	9.6	2.3	-0.2	4.8	2.0	2.9
FEC : GDP (toe : M.Bahts)	16.4	16.2	16.7	16.3	15.5	15.5	15.4	16.2
Ratios (%)								
FEC per Capita (toe/Person)	0.84	0.88	0.96	0.97	1.0	1.0	1.0	1.0
Electricity per Capita (Kwh/Person)	1,567.5	1,660.0	1,771.6	1,853.1	1,940.4	2,006.2	2,021.8	2,014.8
FEC Value : GDP at current Market Prices	14.5	14.9	15.7	17.5	18.4	17.7	18.4	17.4
Value of Imported Energy : GDP at current Market Prices	6.6	7.3	9.1	11.1	11.7	10.3	12.8	8.4
Value of Imported Energy : Total Import	13.0	13.8	15.6	16.5	18.6	18.1	19.5	16.5
Value of Imported Petroleum : Total Import	11.3	12.0	13.9	14.7	16.5	15.7	17.3	13.8

Source : NESDB, BOT, EPPD

Table 7.2.2
Electricity Consumption per Capita

	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998
GDP at Current Prices (Billion Bahts)	1,133.4	1,299.9	1,559.8	1,857.0	2,183.5	2,506.6	2,830.9	3,165.2	3,629.3	4,186.2	4,611.0	4,732.6	4,626.4
GDP at 1988 Prices (Billion Bahts)	1,257.2	1,376.8	1,559.8	1,750.0	1,945.4	2,111.9	2,282.6	2,470.9	2,693.0	2,941.7	3,115.3	3,072.6	2,749.7
Population (Million Persons)	52.5	53.4	54.3	55.2	55.8	56.6	57.3	58.0	58.7	59.4	60.0	60.6	61.2
Electricity Consumption (GWh)	22,034.4	24,894.2	28,110.4	32,772.2	38,203.0	44,238.9	49,331.2	55,231.3	62,558.0	70,870.3	77,083.0	81,998.0	79,899.6
Export (Billion Bahts)	233.4	299.9	403.6	516.3	589.8	725.6	824.6	935.9	1,137.6	1,406.3	1,412.1	1,806.7	2,248.3
Import (Billion Bahts)	241.4	334.2	513.1	662.7	844.4	958.8	1,033.2	1,166.6	1,369.1	1,763.6	1,832.8	1,924.3	1,774.1
Final Energy Consumption (Billion Bahts)	79.0	84.3	140.3	163.8	238.3	279.3	323.8	357.5	390.3	455.0	530.4	580.8	556.7
Final Energy Consumption (Ktoe)	19,634.0	21,599.0	23,746.0	27,863.0	30,668.0	32,559.0	35,332.0	36,992.3	40,359.6	44,894.5	48,754.9	50,122.0	45,467.0

Analysis

	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998
Growth Rate (%)													
GDP (constant Prices)	5.5	9.5	13.3	12.2	11.2	8.6	8.1	8.3	9.0	9.2	5.9	-1.4	-10.5
Final Energy Consumption (Ktoe) : FEC	6.5	10.0	9.9	17.3	10.1	6.2	8.5	4.7	9.1	11.2	8.6	2.8	-9.3
FEC : GDP (toe : M.Bahts)	15.6	15.7	15.2	15.9	15.8	15.4	15.5	15.0	15.0	15.3	15.6	16.3	16.5
Ratios (%)													
FEC per Capita (toe/Person)	0.4	0.4	0.4	0.5	0.5	0.6	0.6	0.6	0.7	0.8	0.8	0.8	0.7
Electricity per Capita (Kwh/Person)	420	466	517	594	684	782	861	952	1,065	1,193	1,285	1,353	1,306
FEC Value : GDP at current Market Prices	7.0	6.5	9.0	8.8	10.9	11.1	11.4	11.3	10.8	10.9	11.5	12.3	12.0
Value of Imported Energy : GDP at current Market Prices	2.6	3.1	2.4	3.0	3.7	3.1	2.9	2.8	2.4	2.6	3.5	4.0	3.2
Value of Imported Energy : Total Import	12.2	12.2	7.3	8.4	9.7	8.2	7.9	7.5	6.4	6.1	8.7	9.7	8.4
Value of Imported Petroleum : Total Import	12.0	12.1	7.2	8.3	9.6	8.1	7.8	7.4	6.2	6.0	8.5	9.5	8.1

Source : NESDB, BOT, EPPD

Table 7.2.2 (Cont.)
Electricity Consumption per Capita

	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
GDP at Current Prices (Billion Bahts)	4,637.1	4,922.7	5,133.5	5,450.6	5,917.4	6,489.5	7,092.9	7,850.2	8,529.8	9,075.5	9,050.7
GDP at 1988 Prices (Billion Bahts)	2,872.0	3,008.4	3,073.6	3,237.0	3,468.2	3,688.2	3,858.0	4,056.6	4,256.6	4,361.4	4,263.4
Population (Million Persons)	61.8	62.2	62.8	63.4	64.0	64.5	65.1	65.6	66.0	66.5	66.9
Electricity Consumption (GWh)	80,985.5	87,747.1	93,020.7	99,407.1	106,207.8	114,325.7	120,637.4	127,237.2	132,492.1	134,411.8	134,792.9
Export (Billion Bahts)	2,215.2	2,773.8	2,884.7	2,923.9	3,325.6	3,874.8	4,439.3	4,946.5	5,302.1	5,851.4	5,197.1
Import (Billion Bahts)	1,907.4	2,494.1	2,752.3	2,774.8	3,138.8	3,801.1	4,754.0	4,942.9	4,870.2	5,946.3	4,605.2
Final Energy Consumption (Billion Bahts)	555.6	689.9	753.0	789.6	882.8	1,021.9	1,238.9	1,444.6	1,506.4	1,671.7	1,578.2
Final Energy Consumption (Ktoe)	47,169.0	47,895.0	49,291.0	52,958.0	56,294.0	61,671.0	63,061.0	62,904.0	65,950.0	67,256.0	69,177.0

Analysis

	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
Growth Rate (%)											
GDP (constant Prices)	4.4	4.8	2.2	5.3	7.1	6.3	4.6	5.1	4.9	2.5	-2.2
Final Energy Consumption (Ktoe) : FEC	3.7	1.5	2.9	7.4	6.3	9.6	2.3	-0.2	4.8	2.0	2.9
FEC : GDP (toe : M.Bahts)	16.4	15.9	16.0	16.4	16.2	16.7	16.3	15.5	15.5	15.4	16.2
Ratios (%)											
FEC per Capita (toe/Person)	0.8	0.8	0.8	0.8	0.9	1.0	1.0	1.0	1.0	1.0	1.0
Electricity per Capita (Kwh/Person)	1,310	1,410	1,480	1,567	1,660	1,772	1,853	1,940	2,006	2,022	2,015
FEC Value : GDP at current Market Prices	12.0	14.0	14.7	14.5	14.9	15.7	17.5	18.4	17.7	18.4	17.4
Value of Imported Energy : GDP at current Market Prices	4.1	6.9	6.9	6.6	7.3	9.1	11.1	11.7	10.3	12.8	8.4
Value of Imported Energy : Total Import	10.0	13.6	12.9	13.0	13.8	15.6	16.5	18.6	18.1	19.5	16.5
Value of Imported Petroleum : Total Import	9.6	12.9	11.4	11.3	12.0	13.9	14.7	16.5	15.7	17.3	13.8

Source : NESDB, BOT, EPPD





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Chapter 8 PETROLEUM PRICES



บทที่ 8
ราคาน้ำมันปิโตรเลียม



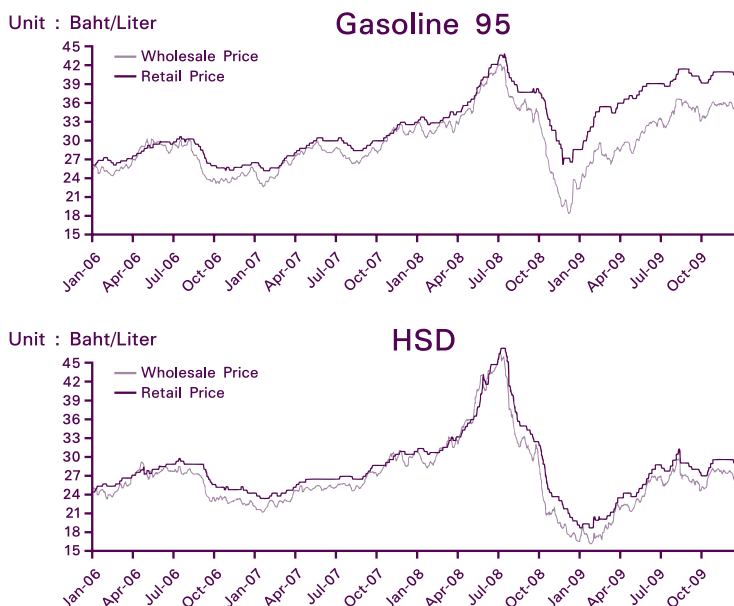
บทที่ 8 ราคาน้ำมันปิโตรเลียม

โครงสร้างราคาน้ำมันของไทย ราคาน้ำมันของไทย ประกอบด้วย ราคาหน้าโรงกลั่น ราคาขายส่ง และราคาขายปลีก ในส่วนของราคาขายส่ง ประกอบด้วย ราคาหน้าโรงกลั่น รวมภาษีสรรพสามิต ภาษีเทศบาล เงินนำส่งเข้ากองทุนน้ำมันเชื้อเพลิง เงินนำส่งเข้ากองทุนเพื่อส่งเสริมการอนุรักษ์พลังงาน และภาษีมูลค่าเพิ่ม ส่วนราคาขายปลีก ประกอบด้วย ราคาขายส่ง รวมค่าการตลาด และภาษีมูลค่าเพิ่ม

การกำหนดราคาน้ำมันสำเร็จรูปของโรงกลั่นไทย การกำหนดราคาขายส่งน้ำมันสำเร็จรูป (Wholesale) ใช้หลักการเสมอภาคกับการนำเข้า (Import Parity Basis) และใช้ตลาดสิงคโปร์เป็นตลาดอ้างอิงการกำหนดราคาน้ำมันสำเร็จรูป เนื่องจากตลาดสิงคโปร์เป็นตลาดส่งออกที่ใหญ่ที่สุดในภูมิภาคเอเชีย ซึ่งอยู่ใกล้ไทยมากที่สุด จึงทำให้ต้นทุนการนำเข้าของไทยอยู่ในระดับต่ำสุด และมีปริมาณการซื้อขายในระดับสูงทำให้ยากต่อการปั่นราคา ส่งผลให้ราคามีความผันผวนน้อยกว่าตลาดอื่น ตลอดจนมีการเปลี่ยนแปลงราคาที่สุดอดคล้องกับตลาดอื่นทั่วโลก

การกำหนดราคา หากโรงกลั่นกำหนดราคาสูงกว่าราคานำเข้าจากสิงคโปร์ ผู้ค้าจะนำเข้าน้ำมันแทนการซื้อจากโรงกลั่นในประเทศ แต่หากกำหนดราคาต่ำกว่าราคานำเข้าจะทำให้โรงกลั่นได้รับผลตอบแทนต่ำกว่าที่ควร จะไม่เกิดแรงจูงใจในการลงทุนธุรกิจการกลั่นในประเทศไทย นอกจากนี้ทำให้โรงกลั่นมีความต้องการส่งออกมากกว่าขายในประเทศ

Retail and Wholesale Prices of Petroleum Products in Bangkok



Chapter 8 Petroleum Prices

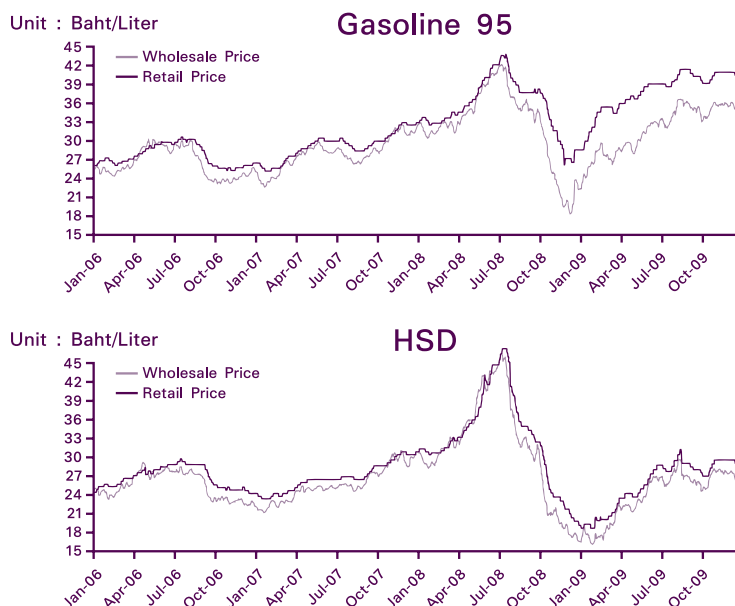


Oil Price Structures in Thailand. Oil prices in Thailand can be divided into: ex-refinery price, wholesale price and retail price. The wholesale price comprises the ex-refinery price plus the excise tax, municipality tax, contribution to the Oil Fund, contribution to the Energy Conservation Promotion Fund (ENCON Fund), and value added tax (VAT). The retail price comprises the wholesale price plus the marketing margin and VAT.

Determination of Petroleum Product Prices by Thai Refineries. The import parity basis is applied to the determination of wholesale prices of petroleum products. The Singapore market is used as the reference market in determining prices of petroleum products because it is the largest export market in the Asian region which is nearest to Thailand and hence the lowest cost of import to Thailand; moreover, the trading volume in the market is enormous, making it difficult to speculate in oil prices, and thus price volatility is less than other markets. Besides, the change in prices in the Singapore market is in line with other markets worldwide.

In setting the prices, if the prices set by refineries are higher than imported prices from Singapore, oil traders will import oil instead of buying it from domestic refineries. Nevertheless, if the prices are set lower than imported prices, the rate of return for the refineries will be lower than what it should be, making investment in oil refining business in Thailand unattractive. Besides, the refineries would prefer exporting their products to selling them domestically.

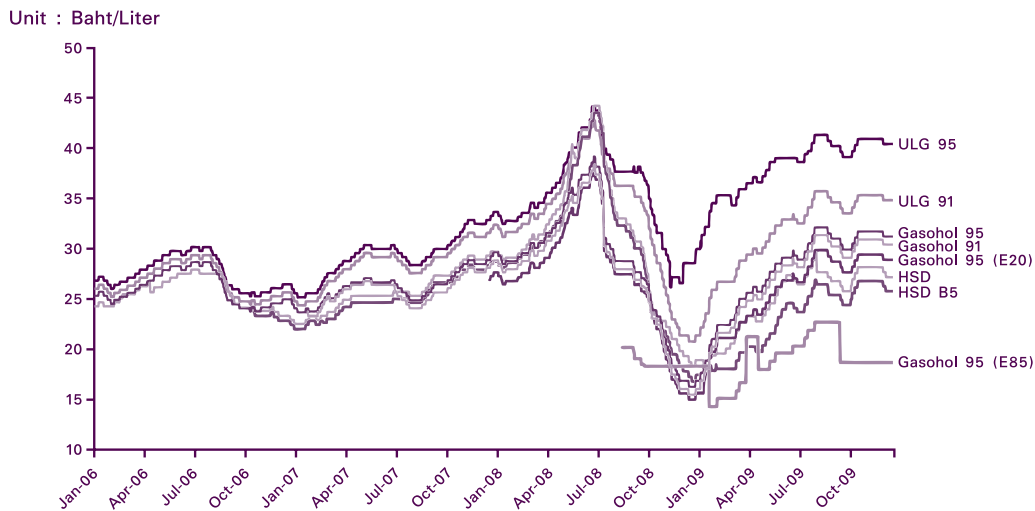
Retail and Wholesale Prices of Petroleum Products in Bangkok



การเปลี่ยนแปลงราคาน้ำมันขายปลีกของไทย จะขึ้น-ลงตามการประกาศราคาหน้าโรงกลั่น โดยการกำหนดราคาน้ำมันของโรงกลั่นจะขึ้นอยู่กับ การเปลี่ยนแปลงของราคาน้ำมันสำเร็จรูปในตลาดสิงคโปร์และอัตราแลกเปลี่ยน (หรือค่าเงินบาท) ซึ่งเป็นต้นทุนในการนำเข้าน้ำมันเชื้อเพลิง

ในช่วงก่อนยกเลิกการควบคุมราคาขายปลีก รัฐบาลได้ใช้ระบบกองทุนน้ำมันเชื้อเพลิงในการรักษา ระดับราคาขายส่งที่ออกจากโรงกลั่นและราคานำเข้าให้อยู่ในระดับคงที่ ส่งผลให้ราคาขายปลีกไม่เปลี่ยนแปลง หลังจากมีการยกเลิกการควบคุมราคาแล้ว ราคาขายส่งได้มีการเปลี่ยนแปลงตามราคาหน้าโรงกลั่น โดยโรงกลั่นเป็นผู้กำหนดราคาซึ่งส่งผลให้ราคาขายปลีกมีการเปลี่ยนแปลงตามในที่สุด

Retail Prices of Petroleum Products in Bangkok



Adjustment of Retail Oil Prices in Thailand. Retail oil prices will be adjusted upwards or downwards pursuant to the ex-refinery price announcement. The refineries' price setting will depend on the change in petroleum product prices in the Singapore market and the rate of exchange (or the value of Thai Baht), which constitute the cost of petroleum product import.

Prior to the deregulation of retail oil prices, the government used the Oil Fund mechanism to stabilize the levels of wholesale prices (ex-refinery) and imported oil prices, and thus the retail prices remain unchanged. After the oil price deregulation, the wholesale prices will change in line with the ex-refinery prices, set by the refineries, resulting eventually in changing retail oil prices accordingly.

Retail Prices of Petroleum Products in Bangkok

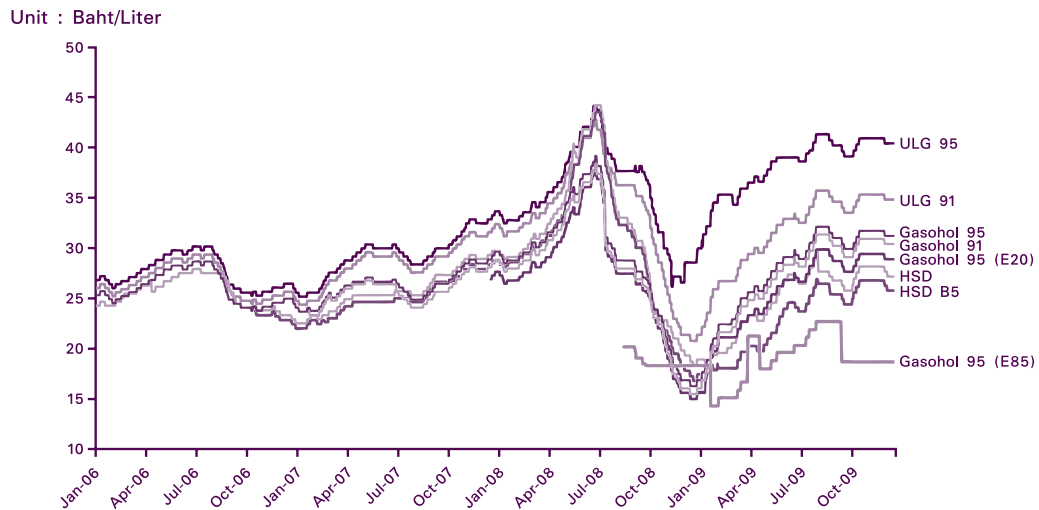


Table 8.1-1
Rates of Exchange in Bangkok

Unit : Baht

Year/ Month	Pound Sterling		U.S.Dollar		Singapore Dollar		Japanese Yen		EURO	
	Buying	Selling	Buying	Selling	Buying	Selling	Buying	Selling	Buying	Selling
2005	72.71	73.33	40.07	40.33	24.33	24.66	0.36	0.37	49.51	50.07
Jan	72.27	72.51	38.56	38.68	23.43	23.51	0.37	0.37	50.42	50.63
Feb	72.04	72.22	38.30	38.39	23.25	23.32	0.36	0.36	49.66	49.78
Mar	72.98	73.83	38.41	38.70	23.44	23.81	0.36	0.37	50.50	51.16
Apr	74.47	75.32	39.34	39.61	23.70	24.07	0.37	0.37	50.81	51.49
May	73.40	74.22	39.63	39.92	23.89	24.28	0.37	0.38	50.17	50.81
Jun	73.94	74.77	40.73	41.01	24.26	24.64	0.37	0.38	49.42	50.05
Jul	72.61	73.43	41.57	41.84	24.57	24.94	0.37	0.38	49.89	50.53
Aug	73.31	74.14	41.00	41.29	26.76	27.16	0.37	0.37	47.94	48.56
Sep	73.75	74.59	40.86	41.15	24.21	24.58	0.37	0.37	49.94	50.58
Oct	71.66	72.48	40.72	41.01	23.98	24.36	0.35	0.36	48.83	49.48
Nov	70.89	70.36	40.92	41.22	26.13	26.53	0.34	0.35	48.14	48.78
Dec	71.26	72.09	40.87	41.17	24.33	24.71	0.34	0.35	48.38	49.02
2006	69.32	70.15	37.74	38.03	23.64	24.03	0.32	0.33	47.24	47.87
Jan	69.48	70.31	39.43	39.72	24.04	24.43	0.34	0.35	47.66	48.29
Feb	68.45	69.25	39.21	39.50	23.96	24.35	0.33	0.34	46.74	47.37
Mar	67.53	68.34	38.79	39.08	23.81	24.20	0.33	0.33	46.50	47.12
Apr	66.62	67.42	37.80	38.09	23.50	23.89	0.32	0.33	46.25	46.83
May	70.50	71.36	37.82	38.11	23.87	24.26	0.34	0.34	48.15	48.79
Jun	70.24	71.08	38.15	38.45	23.89	24.29	0.33	0.34	48.22	48.86
Jul	69.55	70.38	37.81	38.10	23.76	24.16	0.33	0.33	47.84	48.47
Aug	70.69	71.50	37.44	37.73	23.65	24.05	0.32	0.33	47.84	48.47
Sep	70.15	70.99	37.24	37.53	23.49	23.88	0.32	0.32	47.32	47.96
Oct	69.49	70.32	37.15	37.44	23.42	23.82	0.31	0.32	46.75	47.37
Nov	69.33	70.17	36.35	36.65	23.25	23.65	0.31	0.31	46.69	47.32
Dec	69.79	70.72	35.61	35.94	23.02	23.44	0.30	0.31	46.89	47.57
2007	68.60	69.41	34.35	34.69	22.69	23.13	0.29	0.30	46.92	47.61
Jan	69.91	70.85	35.76	36.10	23.15	23.58	0.30	0.30	46.33	47.02
Feb	69.46	70.37	35.53	35.85	23.06	23.47	0.29	0.30	46.34	47.01
Mar	67.75	68.66	34.85	35.18	22.75	23.18	0.30	0.30	46.05	46.72
Apr	68.76	69.70	34.66	35.00	22.77	23.21	0.29	0.30	46.66	47.35
May	68.11	67.54	34.41	34.74	22.49	22.92	0.28	0.29	46.37	47.06
Jun	68.13	69.06	34.37	34.70	22.26	22.69	0.28	0.28	45.99	46.68
Jul	68.01	68.95	33.50	33.84	21.99	22.42	0.27	0.28	45.84	46.53
Aug	68.15	69.08	33.98	34.31	22.20	22.63	0.29	0.30	46.15	46.83
Sep	68.54	69.47	34.04	34.38	22.40	22.84	0.29	0.30	47.16	47.86
Oct	69.26	70.21	33.96	34.29	23.04	23.50	0.29	0.30	48.19	48.90
Nov	69.62	70.56	33.67	34.00	23.16	23.62	0.30	0.31	49.35	50.07
Dec	67.49	68.43	33.49	33.83	22.98	23.44	0.30	0.30	48.58	49.29

**Table 8.1-1 (Cont.)
Rates of Exchange in Bangkok**

Unit : Baht

Year/ Month	Pound Sterling		U.S.Dollar		Singapore Dollar		Japanese Yen		EURO	
	Buying	Selling	Buying	Selling	Buying	Selling	Buying	Selling	Buying	Selling
2008	61.15	62.05	33.14	33.49	23.32	23.79	0.32	0.45	48.56	49.30
Jan	64.78	65.70	32.98	33.31	22.92	23.39	0.30	0.31	48.38	49.11
Feb	63.54	64.45	32.40	32.74	22.84	23.31	0.30	1.84	47.65	48.37
Mar	62.40	63.31	31.24	31.58	22.43	22.90	0.31	0.31	48.35	49.08
Apr	62.04	62.94	31.37	31.71	22.89	23.36	0.30	0.31	49.35	50.08
May	62.54	63.44	31.89	32.23	23.23	23.70	0.30	0.31	49.53	50.27
Jun	64.69	65.62	32.98	33.32	23.99	24.48	0.31	0.31	51.20	51.95
Jul	66.04	66.98	33.28	33.62	24.36	24.86	0.31	0.32	52.36	53.12
Aug	63.49	64.39	33.63	33.97	23.87	24.34	0.31	0.31	50.32	51.04
Sep	61.19	62.08	34.07	34.41	23.74	24.20	0.32	0.32	48.91	49.63
Oct	57.93	58.84	34.20	34.55	23.08	23.54	0.34	0.35	45.53	46.26
Nov	53.32	54.14	34.86	35.22	23.02	23.48	0.36	0.37	44.21	44.94
Dec	51.87	52.75	34.80	35.16	23.46	23.93	0.38	0.39	46.97	47.75
2009	53.12	54.00	34.10	34.47	23.33	23.82	0.36	0.54	47.32	48.10
Jan	49.83	50.69	34.68	35.05	23.14	23.61	0.38	0.39	45.80	46.57
Feb	50.31	51.17	35.09	35.46	22.99	23.45	0.38	0.39	44.73	45.47
Mar	50.32	51.17	35.55	35.92	23.12	23.58	0.36	0.37	46.25	47.00
Apr	51.47	52.33	35.22	35.59	23.29	23.76	0.36	0.36	46.23	46.98
May	52.95	53.83	34.35	34.72	23.40	23.89	0.36	2.33	46.84	47.60
Jun	55.31	56.23	33.90	34.28	23.23	23.72	0.35	0.36	47.42	48.20
Jul	55.20	56.10	33.81	34.19	23.21	23.70	0.36	0.36	47.52	48.29
Aug	55.76	56.67	33.78	34.16	23.31	23.81	0.35	0.36	48.08	48.87
Sep	54.68	55.58	33.59	33.97	23.47	23.97	0.37	0.37	48.77	49.56
Oct	53.46	54.36	33.17	33.55	23.60	24.11	0.37	0.37	49.01	49.81
Nov	54.74	55.64	33.04	33.42	23.67	24.18	0.37	0.38	49.18	49.99
Dec	53.39	54.28	32.99	33.37	23.50	24.01	0.37	0.37	48.04	48.83

Table 8.1-2Y
Ex-Refinery Prices of Petroleum Products in Thailand

Unit : Baht/Litre

Year	Ex-Refinery Price											
	ULG95	UGR91	(E10)	Gasohol 95 (E20)	(E85)	Gasohol 91	Kerosene	HSD 0.035%S	HSD B5	LSD	FO 1500 (2%S)	LPG (B./Kg.)
1996	4.33	3.79				4.79	4.70	4.32	2.83	5.95		
1997	5.40	4.99				5.27	4.58	3.36	7.36			
1998	5.12	4.48				4.60	4.53	3.14	6.15			
1999	5.44	4.87				5.35	4.97	3.87	7.83			
2000	8.64	8.07				8.91	8.63	6.39	11.96			
2001	8.12	7.50				8.05	8.15	5.96	11.29			
2002	7.98	7.44				7.68	7.84	6.35	9.90			
2003	9.44	8.90				8.67	8.90	7.05	11.36			
2004	12.35	11.81				12.06	12.16	7.62	12.32			
2005	16.26	15.75				17.31	16.95	10.06	12.73			
2006	17.84	17.39	18.68			19.51	18.92	12.67	11.96			
2007	18.36	17.94	18.53	18.57	19.23	19.06	20.27	13.17	11.19			
2008	21.73	21.31	21.62	21.42	25.68	25.60	25.00	16.91	10.99			
2009	15.66	15.03	16.29	16.82	19.61	15.40	15.62	12.85	11.08			

Table 8.1-3Y
Oil Fund Levied on Petroleum Products in Thailand

Unit : Baht/Litre

Year	(Ex-Refinery)												
	ULG95	UGR91	Gasohol 95 (E10) (E20)	Gasohol 95 (E85)	Gasohol 91	Kerosene	HSD 0.05%S	HSD 0.035%S	HSD B5	LSD	FO 1500	LPG (B./Kg.)	LPG (Car) (B./Kg.)
1996	0.11	0.11				0.03	0.16			0.12	0.03	-0.64	-0.64
1997	0.08	0.08				0.06	0.07			0.04	0.03	-1.89	-1.89
1998	0.16	0.16				0.10	0.15			0.13	0.06	0.40	0.40
1999	0.09	0.09				0.10	0.10			0.08	0.06	-2.94	-2.94
2000	0.34	0.22				0.10	0.11			0.11	0.06	-7.31	-7.31
2001	0.50	0.30				0.10				0.50	0.06	-5.55	-5.55
2002	0.50	0.30	0.27		0.27	0.10				0.50	0.06	-2.45	-2.45
2003	0.49	0.30	0.27		0.27	0.10				0.50	0.06	-3.05	-3.05
2004	-0.34	-0.59	0.24		0.27	0.10		-2.24		-2.27	0.06	-2.55	-2.55
2005	1.28	1.03	0.13		0.16	0.10		-0.92		-1.02	0.06	-2.54	-2.54
2006	2.70	2.50	0.84		0.84	0.10		1.47	0.41	1.47	0.06	-1.93	-1.93
2007	3.67	3.37	0.85		0.62	0.10		1.39	0.60	1.39	0.06	-1.02	-1.02
2008	3.78	3.31	0.77	-0.21	0.28	0.10		0.40	-0.68	0.31	0.06	0.30	0.30
2009	6.94	5.31	1.78	-0.80	1.17	0.10		0.78	-0.95	1.20	0.06	0.22	0.22

Table 8.1-4
Wholesale Prices of Petroleum Products at Refinery in Thailand

Unit : Baht/Litre

Products	1. Gasoline				2. Kero sene	3. Diesel			4. Fuel Oil				5. LPG (B/KG) (exclude vat)
	ULG95	UGR 91	Gasohol 95 (E10) (E20)			Gaso- hol 91	HSD	HSD B5	LSD	600 (2%S)	1500 (2%S)	2000	
2005													
JAN													
WT.AVG	18.12	17.39			17.25	13.50		13.15	9.30	8.49	8.00	7.78	12.46
TRADER COST	18.11	17.37			17.25	13.61		13.15	9.30	8.45	8.00	7.78	12.46
FEB													
WT.AVG	19.33	18.58			17.98	13.65		13.29	9.74	8.88	8.54	8.35	12.46
TRADER COST	19.33	18.58			17.98	13.79		13.29	9.74	8.87	8.54	8.35	12.46
MAR													
WT.AVG	20.82	20.09			21.11	15.14		14.80	10.99	9.94	9.57	9.48	12.46
TRADER COST	20.82	20.09			21.11	15.31		14.80	10.99	9.92	9.57	9.48	12.46
APR													
WT.AVG	21.73	20.97			22.81	17.68		16.87	12.34	11.38	11.00	10.86	12.46
TRADER COST	21.73	20.97			22.81	17.80		16.87	12.34	11.34	11.00	10.86	12.46
MAY													
WT.AVG	20.51	19.76			21.02	17.68		16.78	12.23	11.37	11.14	10.96	12.46
TRADER COST	20.51	19.77			21.47	17.76		16.78	12.23	11.34	11.14	10.96	12.46
JUN													
WT.AVG	22.48	21.71			22.80	19.58		19.61	13.15	12.02	11.81	11.51	12.46
TRADER COST	22.48	21.70			22.80	19.66		19.61	13.15	11.98	11.81	11.51	12.46
JUL													
WT.AVG	24.53	23.75			23.42	21.79		21.40	13.69	12.49	12.30	11.96	12.46
TRADER COST	24.53	23.75			23.42	21.86		21.40	13.69	12.46	12.30	11.96	12.46
AUG													
WT.AVG	26.49	25.96			24.71	22.34		21.84	14.31	13.19	12.97	12.55	12.46
TRADER COST	26.48	25.95			24.71	22.37		21.84	14.31	13.14	12.97	12.55	12.46
SEP													
WT.AVG	28.41	27.70			25.48	23.41		23.35	15.78	14.66	14.57	14.12	12.46
TRADER COST	28.41	27.70			25.48	23.45		23.35	15.78	14.62	14.57	14.12	12.46
OCT													
WT.AVG	25.51	24.83			24.73	23.16		22.82	15.36	14.33	14.11	13.83	12.46
TRADER COST	25.52	24.84			24.73	23.22		22.82	15.36	14.29	14.11	13.83	12.46
NOV													
WT.AVG	23.78	23.05			22.99	21.79		21.35	14.59	13.84	13.48	13.18	12.46
TRADER COST	23.78	23.05			21.91	21.84		21.35	14.59	13.80	13.48	13.18	12.46
DEC													
WT.AVG	24.46	23.67			22.99	22.35		21.34	14.41	14.15	13.33	13.13	12.46
TRADER COST	24.45	23.66			22.99	22.37		21.34	14.71	14.10	13.33	13.13	12.46
2005 AVG													
WT.AVG	23.02	22.29			22.27	19.34		18.88	12.99	12.06	11.73	11.48	12.46
TRADER COST	23.01	22.29			22.22	19.42		18.88	13.02	12.03	11.73	11.48	12.46

Table 8.1-4 (Cont.)
Wholesale Prices of Petroleum Products at Refinery in Thailand

Unit : Baht/Litre

Products	1. Gasoline			2. Kero sene	3. Diesel			4. Fuel Oil				5. LPG (B/KG (exclude vat)
	ULG95	UGR 91	Gasohol 95 (E10) (E20)		Gasohol 91	HSD	HSD B5	LSD	600 (2%S)	1500 (2%S)	2000	
2006												
JAN												
WT.AVG	25.37	24.63			24.36	23.49	22.65	14.80	14.04	13.42	13.19	12.46
TRADER COST	25.37	24.63			24.36	23.52	22.65	14.80	13.98	13.42	13.19	12.46
FEB												
WT.AVG	24.82	24.10			23.77	23.08	22.20	15.23	14.63	14.14	13.85	12.46
TRADER COST	24.82	24.10			23.77	23.11	22.20	15.23	14.58	14.14	13.85	12.46
MAR												
WT.AVG	25.78	25.06			23.71	24.47	23.53	15.49	14.81	14.42	14.04	12.46
TRADER COST	25.78	25.06			23.71	24.49	23.53	15.49	14.76	14.42	14.04	12.46
APR												
WT.AVG	28.21	27.49			25.47	26.44	25.08	15.98	15.42	14.59	14.29	12.46
TRADER COST	28.20	27.48			25.47	26.42	25.08	15.98	15.35	14.59	14.29	12.46
MAY												
WT.AVG	29.62	28.91			25.66	26.02	24.43	16.03	15.24	14.60	14.33	12.46
TRADER COST	29.62	28.91			25.66	26.02	24.43	16.03	15.18	14.60	14.33	12.46
JUN												
WT.AVG	28.83	28.11			26.06	26.71	25.05	15.62	14.51	13.93	13.68	12.46
TRADER COST	28.83	28.12			26.06	26.70	25.05	15.62	14.46	13.93	13.68	12.46
JUL												
WT.AVG	29.35	28.64			26.22	26.57	25.02	16.26	15.17	14.48	14.21	12.46
TRADER COST	29.35	28.64			26.22	26.57	25.02	16.26	15.11	14.48	14.21	12.46
AUG												
WT.AVG	28.16	27.45			26.48	26.38	24.77	15.64	14.49	13.79	13.44	12.46
TRADER COST	28.16	27.46			26.48	26.38	24.77	15.64	14.44	13.79	13.44	12.46
SEP												
WT.AVG	24.21	23.51			24.24	23.81	23.99	22.31	13.78	12.72	12.05	11.86
TRADER COST	24.22	23.52			24.24	23.84	21.88	22.31	13.78	12.67	12.05	11.86
OCT												
WT.AVG	23.67	22.96			22.49	22.71	23.04	21.12	13.47	12.52	11.83	11.69
TRADER COST	23.67	22.97			22.49	22.71	21.77	21.12	13.47	12.47	11.83	11.69
NOV												
WT.AVG	23.99	23.31			21.93	22.31	22.72	20.77	12.64	11.70	11.10	10.93
TRADER COST	23.99	23.31			21.93	22.31	21.34	20.77	12.64	11.67	11.10	10.93
DEC												
WT.AVG	24.99	24.30			22.46	21.93	22.47	20.52	12.53	11.62	11.01	10.79
TRADER COST	24.99	24.29			22.43	21.93	20.96	20.52	12.53	11.58	11.01	10.79
2006 AVG												
WT.AVG	26.42	25.71			24.40	24.49	23.05	23.12	14.79	13.91	13.28	13.03
TRADER COST	26.42	25.71			24.40	24.50	21.49	23.12	14.79	13.85	13.28	13.03

Table 8.1-4 (Cont.)
Wholesale Prices of Petroleum Products at Refinery in Thailand

Unit : Baht/Litre

Products	1. Gasoline				2. Kero sene	3. Diesel			4. Fuel Oil				5. LPG (B/KG) (exclude vat)	
	ULG95	UGR 91	Gasohol 95 (E10) (E20)			Gaso- hol 91	HSD	HSD B5	LSD	600 (2%S)	1500 (2%S)	2000		2500
2007														
JAN														
WT.AVG	23.58	22.89	21.66		20.80	21.15	21.61	19.60	12.32	11.50	10.81	10.70	12.46	
TRADER COST	23.58	22.90	21.66		20.80	21.15	20.33	19.60	12.32	11.46	10.81	10.70	12.46	
FEB														
WT.AVG	24.61	23.93	22.57		22.18	21.08	22.06	21.92	20.48	13.09	12.32	11.64	11.48	12.46
TRADER COST	24.61	23.92	22.57		22.18	21.08	22.05	21.19	20.48	13.09	12.27	11.64	11.48	12.46
MAR														
WT.AVG	26.62	25.95	22.50		22.12	21.59	22.47	22.21	20.89	13.43	12.61	11.93	11.77	12.46
TRADER COST	26.62	25.94	22.50		22.12	21.59	22.46	21.35	20.89	13.43	12.55	11.93	11.77	12.46
APR														
WT.AVG	28.13	27.46	24.98		24.80	22.88	23.97	23.38	22.41	14.74	13.89	13.24	13.04	12.46
TRADER COST	28.13	27.45	24.98		24.80	22.88	23.96	22.79	22.41	14.74	13.83	13.24	13.04	12.46
MAY														
WT.AVG	29.20	28.53	25.63		25.40	23.03	24.17	23.89	22.65	14.79	13.91	13.29	13.07	12.46
TRADER COST	29.20	28.53	25.63		25.40	23.03	24.17	23.14	22.65	14.79	13.86	13.29	13.07	12.46
JUN														
WT.AVG	28.31	27.64	24.70		24.43	23.37	24.19	23.89	22.64	15.15	14.31	13.63	13.43	12.46
TRADER COST	28.31	27.64	24.70		24.43	23.37	24.18	23.89	22.64	15.15	14.25	13.63	13.43	12.46
JUL														
WT.AVG	27.97	27.31	24.20		23.75	23.68	24.60	24.16	23.04	15.70	14.87	14.33	14.14	12.46
TRADER COST	27.97	27.32	24.20		23.75	23.68	24.59	24.36	23.04	15.70	14.81	14.33	14.14	12.46
AUG														
WT.AVG	26.72	25.99	22.92		22.10	23.26	24.22	23.99	22.67	15.57	14.76	14.26	14.05	12.46
TRADER COST	26.72	25.99	22.92		22.10	23.26	24.22	23.98	22.67	15.57	14.71	14.26	14.05	12.46
SEP														
WT.AVG	28.14	27.37	24.14		23.35	24.68	25.99	25.13	24.35	16.35	15.43	14.87	14.60	12.46
TRADER COST	28.14	27.36	24.14		23.35	24.68	25.97	25.59	24.35	16.35	15.36	14.87	14.60	12.46
OCT														
WT.AVG	29.55	28.77	25.01		24.26	26.07	26.99	26.01	25.35	18.05	17.24	16.52	16.27	12.46
TRADER COST	29.54	28.76	25.01		24.26	26.07	26.97	26.70	25.35	18.05	17.15	16.52	16.27	12.46
NOV														
WT.AVG	31.93	30.90	26.73		25.67	29.52	28.91	27.03	27.93	20.14	19.31	18.79	18.36	12.46
TRADER COST	31.93	30.89	26.73		25.67	29.52	28.89	28.42	27.93	20.14	19.23	18.79	18.36	12.46
DEC														
WT.AVG	31.47	30.46	26.32		25.22	28.50	28.41	27.32	27.66	19.40	18.47	17.85	17.59	12.46
TRADER COST	31.47	30.46	26.32		25.22	28.50	28.41	27.94	27.66	19.40	18.39	17.85	17.59	12.46
2007 AVG														
WT.AVG	28.02	27.27	24.28		23.93	24.04	24.76	24.21	23.30	15.73	14.89	14.26	14.04	12.46
TRADER COST	28.02	27.26	24.28		23.93	24.04	24.75	24.14	23.30	15.73	14.82	14.26	14.04	12.46

Table 8.1-4 (Cont.)
Wholesale Prices of Petroleum Products at Refinery in Thailand

Unit : Baht/Litre

Products	1. Gasoline				2. Kero sene	3. Diesel			4. Fuel Oil				5. LPG (B/KG (exclude vat)	
	ULG95	UGR 91	Gasohol 95 (E10) (E20)			Gasohol 91	HSD	HSD B5	LSD	600 (2%S)	1500 (2%S)	2000		2500
2008														
JAN														
WT.AVG	31.61	30.54	26.94	26.00	26.24	27.63	28.05	26.90	27.34	19.09	18.07	17.46	17.48	13.59
TRADER COST	31.62	30.55	26.94	26.00	26.24	27.63	28.05	26.90	27.34	19.09	18.01	17.46	17.48	13.59
FEB														
WT.AVG	32.07	31.16	27.37	26.35	26.70	27.70	28.09	27.76	27.61	18.67	17.57	16.97	16.96	13.77
TRADER COST	32.06	31.15	27.37	26.35	26.70	27.70	28.10	27.76	27.61	18.67	17.49	16.97	16.96	13.77
MAR														
WT.AVG	32.42	31.58	27.67	26.64	27.11	30.20	28.14	29.51	30.03	19.34	18.06	16.98	17.30	13.69
TRADER COST	32.42	31.58	27.67	26.64	27.11	30.20	28.15	29.51	30.03	19.34	17.98	16.98	17.30	13.69
APR														
WT.AVG	34.30	33.40	29.39	28.19	28.72	33.18	32.66	30.25	32.85	21.07	19.73	18.80	18.61	13.69
TRADER COST	34.29	33.38	29.39	28.19	28.72	33.18	32.64	30.25	32.85	21.07	19.62	18.80	18.61	13.69
MAY														
WT.AVG	37.30	36.36	32.10	30.57	31.46	37.87	37.11	32.62	37.36	23.86	22.20	21.28	20.98	13.69
TRADER COST	37.28	36.34	32.10	30.57	31.46	37.87	37.09	32.62	37.36	23.86	22.08	21.28	20.98	13.69
JUN														
WT.AVG	40.51	39.51	34.99	33.13	34.34	40.48	40.28	37.55	40.42	26.23	24.43	23.28	23.20	13.69
TRADER COST	40.49	39.50	34.99	33.13	34.34	40.48	40.27	37.55	40.42	26.23	24.30	23.28	23.20	13.69
JUL														
WT.AVG	39.72	38.83	33.46	31.78	32.76	41.53	40.09	40.33	41.07	29.13	27.65	26.73	26.53	13.69
TRADER COST	39.74	38.85	33.46	31.78	32.76	41.53	40.10	40.33	41.07	29.13	27.52	26.73	26.53	13.69
AUG														
WT.AVG	35.73	34.85	26.87	25.60	26.17	35.39	31.37	35.50	34.10	26.89	25.88	25.29	25.17	13.69
TRADER COST	35.74	34.85	26.87	25.60	26.17	35.39	31.38	35.50	34.10	26.89	25.76	25.29	25.17	13.69
SEP														
WT.AVG	34.52	33.80	26.02	24.78	25.31	31.94	29.17	29.12	31.17	23.94	23.00	22.52	22.40	13.69
TRADER COST	34.53	33.81	26.02	24.78	25.31	31.94	29.18	29.12	31.17	23.94	22.92	22.52	22.40	13.69
OCT														
WT.AVG	28.46	28.21	21.68	20.87	20.90	25.06	22.10	20.76	23.64	17.16	16.43	16.27	16.10	13.69
TRADER COST	28.50	28.25	21.68	20.87	20.90	25.06	22.13	20.76	23.64	17.16	16.48	16.27	16.10	13.69
NOV														
WT.AVG	21.50	21.19	16.24	15.17	15.35	21.39	19.19	17.29	19.97	11.55	10.58	10.02	10.09	13.69
TRADER COST	21.52	21.22	16.24	15.17	15.35	21.39	19.20	17.29	19.97	11.55	10.55	10.02	10.09	13.69
DEC														
WT.AVG	21.23	19.21	14.51	13.35	13.69	17.81	16.89	14.66	17.48	10.34	9.55	8.96	9.10	13.69
TRADER COST	21.21	19.21	14.51	13.35	13.69	17.81	16.90	14.66	17.48	10.34	9.52	8.96	9.10	13.69
2008 AVG														
WT.AVG	32.45	31.55	26.44	25.20	25.73	30.85	29.43	28.52	30.25	20.61	19.43	18.71	18.66	13.68
TRADER COST	32.45	31.56	26.44	25.20	25.73	30.85	29.43	28.52	30.25	20.61	19.35	18.71	18.66	13.68

Table 8.1-4 (Cont.)
Wholesale Prices of Petroleum Products at Refinery in Thailand

Unit : Baht/Litre

Products	1. Gasoline				2. Kero- sene	3. Diesel			4. Fuel Oil				5. LPG (B/KG) (exclude vat)	
	ULG95	UGR 91	Gasohol 95 (E10) (E20)			Gaso- hol 91	HSD	HSD B5	LSD	600 (2%S)	1500 (2%S)	2000		2500
2009														
JAN														
WT.AVG	25.31	21.68	16.26	14.05	15.46	17.83	16.81	14.62	17.21	10.96	10.30	9.68	9.82	13.69
TRADER COST	25.29	21.66	16.26	14.05	15.46	17.83	16.82	14.62	17.21	10.96	10.25	9.68	9.82	13.69
FEB														
WT.AVG	28.33	24.53	19.82	17.39	19.09	16.49	16.66	13.50	15.37	10.94	10.49	10.13	10.23	13.69
TRADER COST	28.33	24.53	19.82	17.39	19.09	16.49	16.67	13.50	15.37	10.94	10.47	10.13	10.23	13.69
MAR														
WT.AVG	27.70	25.40	21.83	19.23	21.01	16.70	19.51	16.17	16.12	10.75	10.21	9.79	9.91	13.69
TRADER COST	27.70	25.38	21.83	19.23	21.01	16.70	19.50	16.17	16.12	10.75	10.17	9.79	9.91	13.69
APR														
WT.AVG	29.08	27.37	23.53	20.54	22.72	18.01	20.93	17.48	17.57	12.20	11.71	11.27	11.35	13.69
TRADER COST	29.08	27.35	23.53	20.54	22.72	18.01	20.94	17.48	17.57	12.20	11.66	11.27	11.35	13.69
MAY														
WT.AVG	30.61	28.81	24.93	21.77	24.16	18.70	22.09	19.16	18.40	13.82	13.41	12.97	13.05	13.69
TRADER COST	30.60	28.79	24.93	21.77	24.16	18.70	22.08	19.16	18.40	13.82	13.35	12.97	13.05	13.69
JUN														
WT.AVG	32.88	31.14	27.25	24.23	26.45	21.20	25.04	20.64	21.15	15.80	15.32	15.00	14.95	13.69
TRADER COST	32.87	31.13	27.25	24.23	26.45	21.20	25.03	20.64	21.15	15.80	15.26	15.00	14.95	13.69
JUL														
WT.AVG	33.37	31.38	27.37	24.23	26.43	20.41	24.79	20.06	20.53	15.86	15.44	15.08	15.16	13.69
TRADER COST	33.37	31.38	27.37	24.23	26.43	20.41	24.80	20.06	20.53	15.86	15.39	15.08	15.16	13.69
AUG														
WT.AVG	36.00	33.95	30.05	26.47	28.96	21.81	26.27	23.07	22.83	17.13	16.64	16.28	16.34	13.69
TRADER COST	35.99	33.95	30.05	26.47	28.96	21.81	26.27	23.07	22.83	17.13	16.58	16.28	16.34	13.69
SEP														
WT.AVG	34.50	32.53	30.04	25.31	27.59	20.90	24.55	22.97	21.94	16.67	16.23	15.99	16.01	13.69
TRADER COST	34.51	32.54	30.04	25.31	27.59	20.90	24.55	22.97	21.94	16.67	16.18	15.99	16.01	13.69
OCT														
WT.AVG	34.68	32.62	28.85	25.41	27.76	21.74	25.30	24.22	22.55	17.04	16.60	16.19	16.26	13.69
TRADER COST	34.67	32.60	28.85	25.41	27.76	21.74	25.29	24.22	22.55	17.04	16.53	16.19	16.26	13.69
NOV														
WT.AVG	35.57	33.55	29.66	26.13	28.56	22.84	26.26	25.08	23.64	17.96	17.50	17.20	16.22	13.69
TRADER COST	35.58	33.55	29.66	26.13	28.56	22.84	26.26	25.08	23.64	17.96	17.44	17.20	16.22	13.69
2009 AVG														
WT.AVG	31.64	29.36	25.42	22.25	24.38	19.69	22.56	19.72	19.76	14.47	13.99	13.60	13.57	13.69
TRADER COST	31.64	29.35	25.42	22.25	24.38	19.69	22.56	19.72	19.76	14.47	13.93	13.60	13.57	13.69

After Jan'1992 Wholesale Prices Including VAT.

Table 8.1-5Y
Retail Prices of Petroleum Products in Bangkok

Unit : Baht/Litre

Products	1. Gasoline			2. Kerosene		3. Diesel		4. Fuel Oil		5. LPG	
	ULG95	UGR91	Gasohol 95 (E20)	Gasohol 91 (E85)	HSD	B5	LSD	600 (2%S)	1500 (2%S)	(Baht/KG)	
										Large,Small	Automobile
1997 (MIN)	10.43	10.04		10.90	9.43		9.21	5.67	5.43	11.36	10.46
(WT.AVG)	10.48	10.09		11.17	9.49		9.48	5.85	5.45	11.36	10.53
(MAX)	10.50	10.12		11.40	9.51		10.00	6.06	5.97	11.36	10.58
1998 (MIN)	11.84	11.18		11.16	9.18		8.80	6.59	6.21	12.70	11.94
(WT.AVG)	11.86	11.20		11.70	9.19		9.54	6.79	6.42	12.70	11.94
(MAX)	11.87	11.20		12.10	9.19		10.93	7.20	7.01	12.70	11.94
1999 (MIN)	11.96	11.14		11.25	8.95		8.58	6.41	6.09	11.03	10.75
(WT.AVG)	11.98	11.16		11.63	8.96		8.95	6.87	6.29	11.03	10.75
(MAX)	11.98	11.17		11.93	8.97		9.51	7.86	7.69	11.03	10.75
2000 (MIN)	15.62	14.66		14.83	12.92		12.58	9.30	8.94	10.70	10.57
(WT.AVG)	15.63	14.68		15.10	12.95		12.77	9.68	9.22	10.70	10.57
(MAX)	15.64	14.68		15.43	12.97		12.94	10.47	10.25	10.70	10.57
2001 (MIN)	15.50	14.50		15.33	13.42		13.05	9.39	8.90	11.90	12.00
(WT.AVG)	15.51	14.51		15.97	13.43		13.18	9.76	9.25	11.90	12.00
(MAX)	15.51	14.51		16.53	13.43		13.30	10.41	9.98	11.90	12.00
2002 (MIN)	15.29	14.29		14.54	13.12		12.72	9.31	8.96	13.77	13.98
(WT.AVG)	15.29	14.29		15.56	13.12		12.83	9.91	9.24	13.77	13.98
(MAX)	15.29	14.29		16.12	13.12		12.98	10.65	10.19	13.77	13.98
2003 (MIN)	16.60	15.65		15.60	14.03		13.58	10.38	10.02	14.87	14.88
(WT.AVG)	16.60	15.65		16.71	14.03		13.73	11.00	10.36	14.87	14.88
(MAX)	16.60	15.65		17.41	14.03		13.85	12.40	11.80	14.87	14.88
2004 (MIN)	19.05	18.26		17.73	14.59		14.28	10.66	10.25	16.46	16.46
(WT.AVG)	19.05	18.26		19.50	14.59		14.37	11.75	10.98	16.46	16.46
(MAX)	19.05	18.26		20.22	14.59		14.45	13.02	12.53	16.46	16.46
2005 (MIN)	23.89	23.09		22.06	20.01		17.14	13.75	13.10	16.81	16.81
(WT.AVG)	23.90	23.10		24.51	20.03		18.18	15.83	15.09	16.81	16.81
(MAX)	23.91	23.11		25.71	20.05		19.91	17.30	16.86	16.81	16.81
2006 (MIN)	27.54	26.75		26.87	25.56		25.37	17.22	16.35	16.81	16.81
(WT.AVG)	27.58	26.79		28.42	25.59		25.37	18.11	17.29	16.81	16.81
(MAX)	27.66	26.86		29.25	25.61		25.37	19.27	18.79	16.81	16.81
2007 (MIN)	29.18	28.32	26.17	26.01	25.66	24.95	25.45	18.48	17.66	16.91	16.91
(WT.AVG)	29.18	28.32	26.17	26.76	25.66	24.95	25.45	19.35	18.45	16.91	16.91
(MAX)	29.23	28.35	26.25	25.76	25.67	24.95	25.45	20.67	20.19	16.91	16.91
2008 (MIN)	34.86	33.40	28.95	28.15	31.15	30.34	33.20	22.53	21.06	18.13	18.13
(WT.AVG)	35.33	33.43	28.97	28.16	31.26	30.39	33.20	24.30	22.90	18.13	18.13
(MAX)	35.89	33.45	29.02	28.20	31.34	30.50	33.20	27.12	26.11	18.13	18.13
2009 (MIN)	37.23	31.32	27.49	26.65	24.75	22.71	27.04	18.10	16.39	18.13	18.13
(WT.AVG)	37.47	31.34	27.50	26.69	24.77	22.71	27.04	21.18	19.83	18.13	18.13
(MAX)	38.29	31.36	27.53	26.74	24.79	22.73	27.04	27.28	25.90	18.13	18.13

Table 8.1-6
Tax and Oil Fund Revenue in Thailand

Unit : Million Bahts

Month	Oil Fund	Oil Fund Inflow (Outflow)	Excise Tax & Import Duty
2005		-76,815	77,021
Jan	-44,196	-44,196	7,257
Feb	-58,895	-14,699	6,282
Mar	-63,314	-4,419	7,022
Apr	-76,744	-13,430	6,855
May	-79,069	-2,325	7,349
Jun	-80,066	-997	5,775
Jul	-80,680	-614	5,217
Aug	-80,124	556	6,146
Sep	-82,024	-1,900	6,236
Oct	-82,988	-964	6,572
Nov	-79,665	3,323	6,812
Dec	-76,815	2,850	5,498
2006		35,404	74,102
Jan	-73,913	2,902	5,889
Feb	-69,386	4,527	5,407
Mar	-64,669	4,717	5,925
Apr	-61,072	3,597	6,863
May	-57,914	3,158	6,909
Jun	-55,794	2,120	6,365
Jul	-53,946	1,848	6,566
Aug	-51,808	2,138	6,115
Sep	-50,287	1,521	5,865
Oct	-48,251	2,036	6,219
Nov	-44,853	3,398	6,016
Dec	-41,411	3,442	5,963
2007		41,411	76,962
Jan	-37,492	3,919	7,363
Feb	-33,698	3,794	6,096
Mar	-30,012	3,686	6,349
Apr	-26,580	3,432	6,691
May	-22,444	4,136	6,726
Jun	-19,197	3,247	6,198
Jul	-16,451	2,746	6,194
Aug	-15,426	1,025	6,809
Sep	-11,822	3,604	6,157
Oct	-5,572	6,250	6,558
Nov	-2,933	2,639	6,075
Dec	0	2,933	5,746

Table 8.1-6 (Cont.)
Tax and Oil Fund Revenue in Thailand

Unit : Million Bahts

Month	Oil Fund	Oil Fund Inflow (Outflow)	Excise Tax & Import Duty
2008		11,069	54,083
Jan	2,560	2,560	7,009
Feb	3,659	1,099	5,933
Mar	3,780	121	6,843
Apr	3,305	-475	7,139
May	3,839	534	6,404
Jun	3,672	-167	6,152
Jul	134	-3,538	5,472
Aug	197	63	1,955
Sep	1,562	1,365	1,928
Oct	4,496	2,934	1,851
Nov	7,563	3,067	1,628
Dec	11,069	3,506	1,769
2009		10,225	123,445
Jan	14,960	3,891	1,483
Feb	16,618	1,658	7,169
Mar	19,567	2,949	9,325
Apr	15,694	-3,873	8,645
May	17,566	1,872	10,037
Jun	15,173	-2,393	13,331
Jul	16,593	1,420	12,557
Aug	19,054	2,461	12,225
Sep	19,683	629	11,039
Oct	20,561	878	12,351
Nov	20,758	197	12,279
Dec	21,294	536	13,004

Remarks : Including debt since October 2000





Energy of Thailand

Chapter 9

AIR POLLUTION EMISSION IN THE ENERGY SECTOR



บทที่ 9

การปล่อยมลพิษทางอากาศในภาคพลังงาน



บทที่ 9

การปล่อยมลพิษทางอากาศ ในภาคพลังงาน

วิธีการคำนวณ การคำนวณปริมาณการปลดปล่อยมลพิษทางอากาศ เป็นการประมาณปริมาณก๊าซคาร์บอนไดออกไซด์ (CO₂) ที่เกิดจากการใช้พลังงานของประเทศ ซึ่งคำนวณจากปริมาณการใช้พลังงาน (Energy Consumption) และค่าสัมประสิทธิ์การปล่อยก๊าซ CO₂ (Emission Factor) ตามชนิดเชื้อเพลิง โดยอ้างอิงระเบียบวิธีประมาณการและค่าสัมประสิทธิ์การปล่อยก๊าซ CO₂ ตามหลักเกณฑ์ของ Intergovernmental Panel on Climate Change (IPCC) ฉบับปี 2006 โดยมีสูตรคำนวณดังนี้

$$CO_2 \text{ Emission} = \sum (EF_{\text{Fuel}} \times FC_{\text{Fuel}})$$

- CO₂ Emission หมายถึง ปริมาณการปล่อยก๊าซ CO₂ จากการใช้พลังงาน
- EF_{Fuel} (Emission Factor)¹ หมายถึง ค่าสัมประสิทธิ์การปล่อยก๊าซ CO₂ ตามชนิดเชื้อเพลิง
- FC_{Fuel} (Fuel Consumption)² หมายถึง ปริมาณการใช้เชื้อเพลิงแต่ละชนิด

ขอบเขตการคำนวณปริมาณก๊าซ CO₂ ข้างต้น คำนวณจากการใช้พลังงานของ 4 ภาคเศรษฐกิจ ได้แก่ ภาคการผลิตไฟฟ้า (Power Generation) ภาคการขนส่ง (Transportation) ภาคอุตสาหกรรม (Industry) และภาคเศรษฐกิจอื่น ๆ (Other Sectors) ซึ่งหมายถึงภาคครัวเรือน เกษตรกรรม และพาณิชย์กรรม ด้านชนิดเชื้อเพลิงได้แบ่งเชื้อเพลิงในการคำนวณออกเป็น 3 ชนิด ได้แก่ น้ำมันสำเร็จรูป (คำนวณจากการใช้น้ำมันเบนซิน ดีเซล น้ำมันเตา ก๊าซปิโตรเลียมเหลว (LPG) น้ำมันเครื่องบิน และน้ำมันก๊าด) ก๊าซธรรมชาติ และถ่านหิน/ลิกไนต์ โดยในการคำนวณจะไม่รวมเชื้อเพลิงบางชนิด ได้แก่ น้ำมันเตาสำหรับเรือเดินสมุทรระหว่างประเทศ (Bunker Oil) น้ำมันเครื่องบินสำหรับเที่ยวบินระหว่างประเทศ และเชื้อเพลิงหมุนเวียน เช่น ชีวมวล ก๊าซชีวภาพ เอทานอล ไบโอดีเซล พลังน้ำ เป็นต้น เพื่อให้สอดคล้องกับข้อยกเว้นในการคำนวณและป้องกันการนับซ้ำของ IPCC

การปล่อยก๊าซ CO₂ รายภาคเศรษฐกิจ

- **ภาคการผลิตไฟฟ้า** มีการปล่อยก๊าซ CO₂ ในปัจจุบันรวมทั้งสิ้น 84.00 ล้านตัน โดยกว่า 20 ปีที่ผ่านมา มีการปล่อยก๊าซ CO₂ จากการใช้ น้ำมันสำเร็จรูป (น้ำมันดีเซลและน้ำมันเตา) ลดลงจาก 2.71 ล้านตันในปี 1986 เหลือ 1.03 ล้านตันในปี 2009 ในขณะที่การใช้ถ่านหิน/ลิกไนต์ และก๊าซธรรมชาติยังคงมีแนวโน้มการปล่อยก๊าซ CO₂ สูงขึ้นตามปริมาณการใช้พลังงานที่เพิ่มขึ้น โดยถ่านหิน/ลิกไนต์ปล่อยก๊าซ CO₂ เพิ่มขึ้นจาก 4.55 ล้านตันในปี 1986 เป็น 31.22 ล้านตันในปี 2009 เช่นเดียวกับก๊าซธรรมชาติที่ปล่อยก๊าซ CO₂ เพิ่มขึ้นจาก 5.22 ล้านตันในปี 1986 เป็น 51.76 ล้านตันในปี 2009 โดยก๊าซธรรมชาตินับเป็นเชื้อเพลิงที่มีการปล่อยก๊าซ CO₂ ในภาคการผลิตไฟฟ้ามากที่สุด ณ ปัจจุบัน

¹ อ้างอิงจากคู่มือการคำนวณการปล่อยมลพิษทางอากาศของ Intergovernmental Panel on Climate Change (IPCC) ฉบับปี 2006
² อ้างอิงจากฐานข้อมูลสถิติพลังงานของสำนักงานนโยบายและแผนพลังงาน

Air Pollution Emission in The Energy Sector



Calculation Methods. The calculation of the amount of air pollution emissions herein is the estimation of CO₂ emissions from the use of energy in Thailand, calculated from the amount of energy consumption and the CO₂ emission factor by fuel type, with reference to the estimation methodologies and CO₂ emission factors prescribed in the 2006 Guidelines of the Intergovernmental Panel on Climate Change (IPCC), using the following calculation formula:

$$\text{CO}_2 \text{ Emission} = \sum (\text{EF}_{\text{Fuel}} \times \text{FC}_{\text{Fuel}})$$

Where:

- CO₂ Emission means the amount of CO₂ emission from energy consumption
- EF_{Fuel} (Emission Factor)¹ means the CO₂ emission factor by fuel type
- FC_{Fuel} (Fuel Consumption)² means the amount of utilization of each fuel type

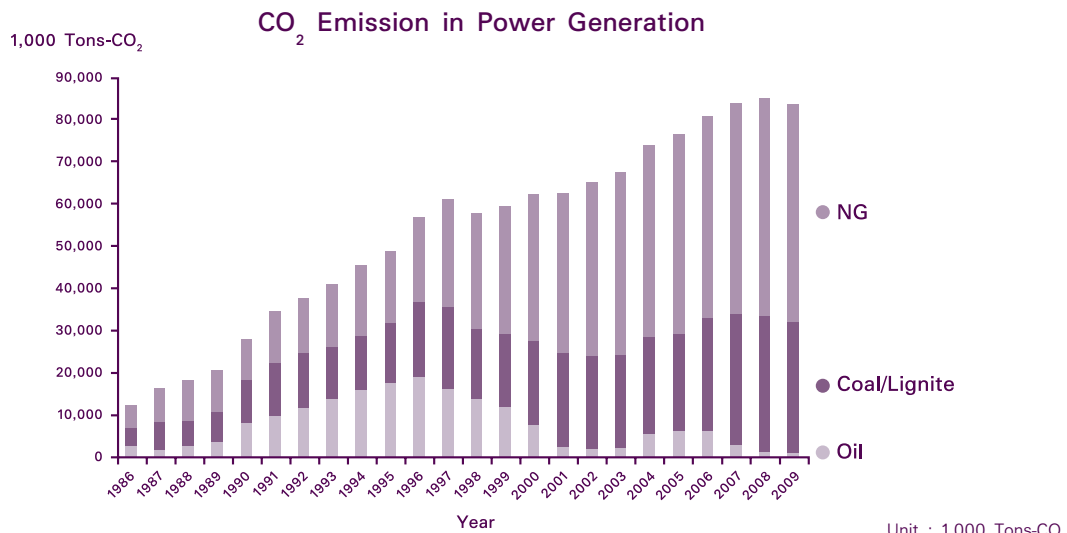
The scope of the above-mentioned CO₂ emission calculation covers energy consumption in four major economic sectors, namely: power generation, transportation, industry and other economic sectors (covering the residential, agricultural and commercial sectors). As for the fuel types used in the calculation, they are divided into three types, namely: petroleum products (calculated from consumption of gasoline, diesel, fuel oil, LPG, jet petroleum and kerosene), natural gas and coal/lignite. Certain types of fuel are not included in the calculation, i.e. bunker oil for international ocean liners, jet petroleum for international flights, and renewable fuels, such as biomass, biogas, ethanol, biodiesel and hydropower, to be in line with the exceptions to the calculation and to avoid the possibilities of double counting prescribed by the IPCC.

CO₂ Emission by Economic Sector

- **Power Generation Sector.** Current CO₂ emissions in this sector total 84.00 million tons. Over the past 20 years, CO₂ emissions from the use of petroleum products (diesel and fuel oil) had decreased from 2.71 million tons in 1986 to 1.03 million tons in 2009. However, CO₂ emissions from the use of coal/lignite and natural gas had been rising in accordance with increased energy use. CO₂ emission from coal/lignite consumption increased from 4.55 million tons in 1986 to 31.22 million tons in 2009; similarly, CO₂ emission from natural gas consumption increased from 5.22 million tons in 1986 to 51.76 million tons in 2009. At present, natural gas accounts for the largest CO₂ emission source in the power generation sector.

¹ Based on the 2006 Intergovernmental Panel on Climate Change (IPCC) Guidelines for National Greenhouse Gas Inventories

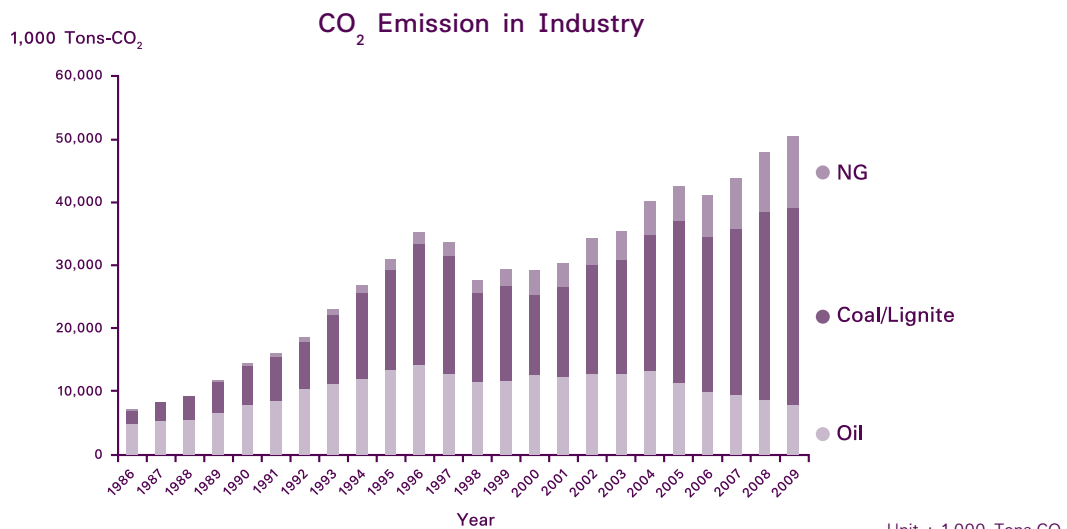
² Based on the energy statistics database of the Energy Policy and Planning Office



Year	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997
Oil	2,705	1,837	2,520	3,779	8,097	9,901	11,630	14,092	16,061	17,619	19,185	16,429
Coal/Lignite	4,551	6,600	6,231	7,149	10,437	12,529	13,129	12,143	12,847	14,368	17,506	19,268
NG	5,221	8,055	9,629	9,843	9,615	12,320	13,039	14,731	16,651	17,027	20,196	25,544

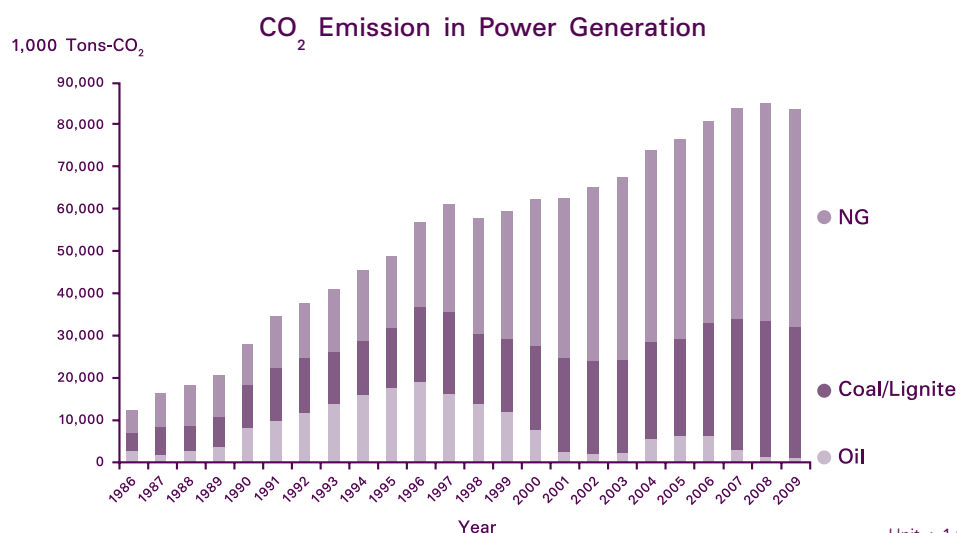
Year	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
Oil	13,997	12,016	7,559	2,373	2,141	2,302	5,576	6,485	6,331	2,952	1,211	1,030
Coal/Lignite	16,529	17,402	20,321	22,574	21,977	21,921	23,037	22,766	26,723	31,276	32,376	31,222
NG	27,448	30,240	34,526	37,801	41,147	43,661	45,486	47,642	47,975	49,852	51,639	51,757

● **ภาคอุตสาหกรรม** มีการปล่อยก๊าซ CO₂ จากการใช้ถ่านหิน/ลิกไนต์ และก๊าซธรรมชาติเพิ่มขึ้น ในขณะที่มีแนวโน้มการปล่อยก๊าซ CO₂ จากน้ำมันสำเร็จรูป (น้ำมันดีเซล น้ำมันเตา น้ำมันก๊าด และ LPG) ลดลงเช่นเดียวกับภาคการผลิตไฟฟ้า ปัจจุบันถ่านหิน/ลิกไนต์เป็นเชื้อเพลิงที่มีสัดส่วนการปล่อยก๊าซ CO₂ มากที่สุดในภาคอุตสาหกรรม โดยเพิ่มขึ้นจาก 2.06 ล้านตันในปี 1986 เป็น 31.18 ล้านตันในปี 2009 เช่นเดียวกับก๊าซธรรมชาติที่ปล่อยก๊าซ CO₂ ในช่วงดังกล่าวเพิ่มขึ้น ในขณะที่น้ำมันสำเร็จรูปปล่อยก๊าซ CO₂ ลดลงจาก 14.28 ล้านตัน เหลือเพียง 8.00 ล้านตัน



Year	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997
Oil	4,955	5,457	5,679	6,783	7,932	8,651	10,399	11,256	11,970	13,512	14,276	12,913
Coal/Lignite	2,056	2,940	3,593	4,815	6,157	6,896	7,661	10,966	13,817	15,970	19,271	18,756
NG	206	95	147	204	371	516	715	870	1,142	1,549	1,664	2,049

Year	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
Oil	11,686	11,870	12,629	12,339	12,862	12,873	13,240	11,408	10,058	9,536	8,877	8,003
Coal/Lignite	14,108	14,971	12,779	14,236	17,266	17,982	21,726	25,567	24,590	26,353	29,778	31,182
NG	1,951	2,614	3,859	3,763	4,224	4,623	5,354	5,624	6,408	7,881	9,338	11,256

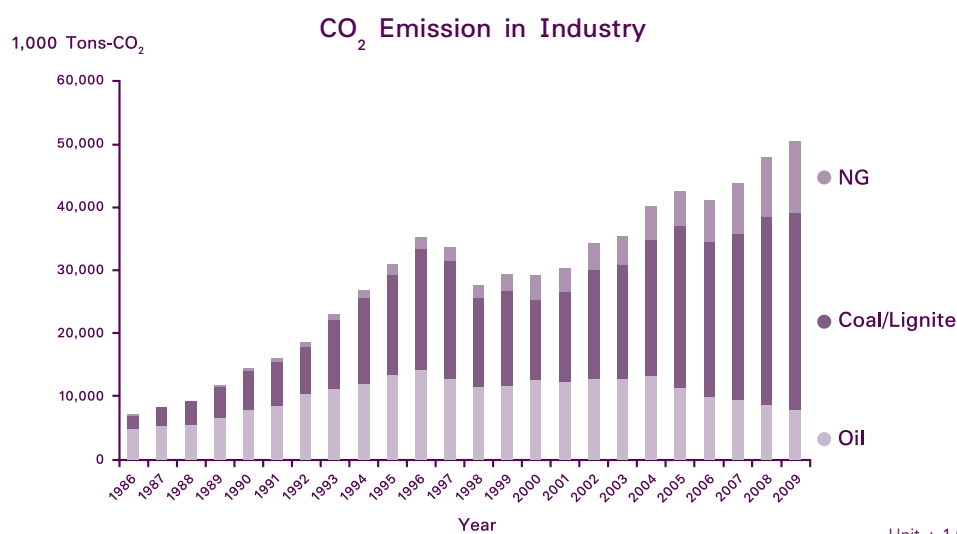


Unit : 1,000 Tons-CO₂

Year	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997
Oil	2,705	1,837	2,520	3,779	8,097	9,901	11,630	14,092	16,061	17,619	19,185	16,429
Coal/Lignite	4,551	6,600	6,231	7,149	10,437	12,529	13,129	12,143	12,847	14,368	17,506	19,268
NG	5,221	8,055	9,629	9,843	9,615	12,320	13,039	14,731	16,651	17,027	20,196	25,544

Year	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
Oil	13,997	12,016	7,559	2,373	2,141	2,302	5,576	6,485	6,331	2,952	1,211	1,030
Coal/Lignite	16,529	17,402	20,321	22,574	21,977	21,921	23,037	22,766	26,723	31,276	32,376	31,222
NG	27,448	30,240	34,526	37,801	41,147	43,661	45,486	47,642	47,975	49,852	51,639	51,757

● **Industrial Sector.** Similar to the power generation sector, CO₂ emissions from coal/lignite and natural gas consumption in this sector had increased while the decrease in emissions had been observed in the use of petroleum products (diesel, fuel oil, kerosene and LPG). In 2009, coal/lignite accounted for the largest CO₂ emission source in the industrial sector, with the emission increasing from 2.06 million tons in 1986 to 31.18 million tons in 2009. CO₂ emission from natural gas consumption also increased over the same period while the emission from petroleum product consumption decreased from 14.28 million tons to only 8.00 million tons.



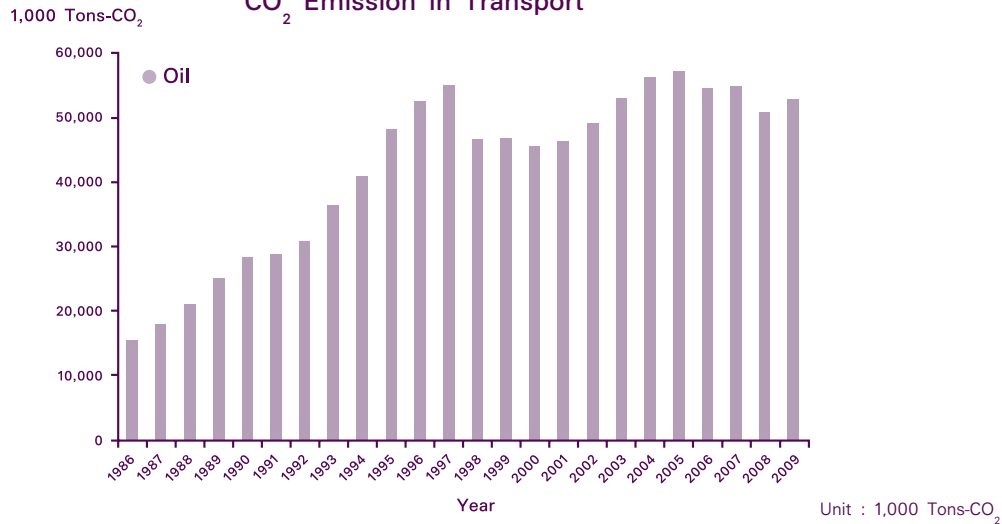
Unit : 1,000 Tons-CO₂

Year	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997
Oil	4,955	5,457	5,679	6,783	7,932	8,651	10,399	11,256	11,970	13,512	14,276	12,913
Coal/Lignite	2,056	2,940	3,593	4,815	6,157	6,896	7,661	10,966	13,817	15,970	19,271	18,756
NG	206	95	147	204	371	516	715	870	1,142	1,549	1,664	2,049

Year	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
Oil	11,686	11,870	12,629	12,339	12,862	12,873	13,240	11,408	10,058	9,536	8,877	8,003
Coal/Lignite	14,108	14,971	12,779	14,236	17,266	17,982	21,726	25,567	24,590	26,353	29,778	31,182
NG	1,951	2,614	3,859	3,763	4,224	4,623	5,354	5,624	6,408	7,881	9,338	11,256

● **ภาคการขนส่ง** เชื้อเพลิงสำคัญที่ก่อให้เกิดการปล่อยก๊าซ CO₂ ในภาคเศรษฐกิจนี้ คือ น้ำมันสำเร็จรูป (น้ำมันเบนซิน ดีเซล น้ำมันเตา น้ำมันเครื่องบิน และ LPG) โดยมีการปล่อยก๊าซ CO₂ เพิ่มขึ้นจาก 15.62 ล้านตันในปี 1986 เป็น 55.24 ล้านตันในปี 1997 ก่อนจะลดลงในปี 1998 ซึ่งเป็นช่วงที่ประเทศเกิดภาวะวิกฤตเศรษฐกิจอันส่งผลให้มีการใช้พลังงานลดลง จากนั้นจึงเริ่มมีแนวโน้มการปล่อยก๊าซ CO₂ เพิ่มขึ้น ต่อเนื่องจนถึงปัจจุบันซึ่งมีการปล่อยที่ระดับ 52.84 ล้านตัน

CO₂ Emission in Transport

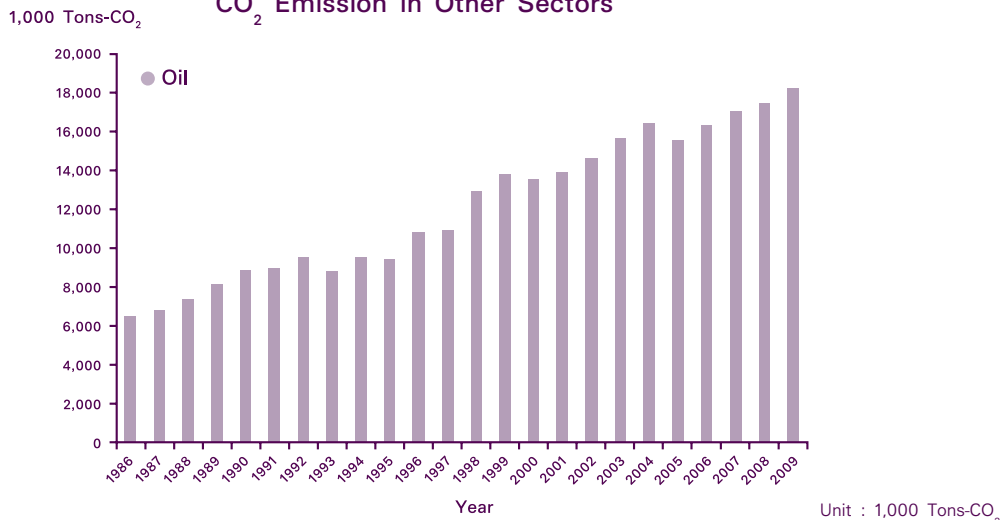


Year	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997
Oil	15,617	18,092	21,047	25,202	28,354	28,978	30,912	36,534	40,939	48,211	52,711	55,235

Year	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
Oil	46,741	46,893	45,560	46,531	49,240	52,996	56,483	57,383	54,601	55,071	50,877	52,838

● **ภาคเศรษฐกิจอื่น ๆ** ยังคงมีแนวโน้มการปล่อยก๊าซ CO₂ จากการใช้ น้ำมันสำเร็จรูปเพิ่มสูงขึ้น จาก 6.46 ล้านตันในปี 1986 เป็น 18.16 ล้านตันในปี 2009

CO₂ Emission in Other Sectors

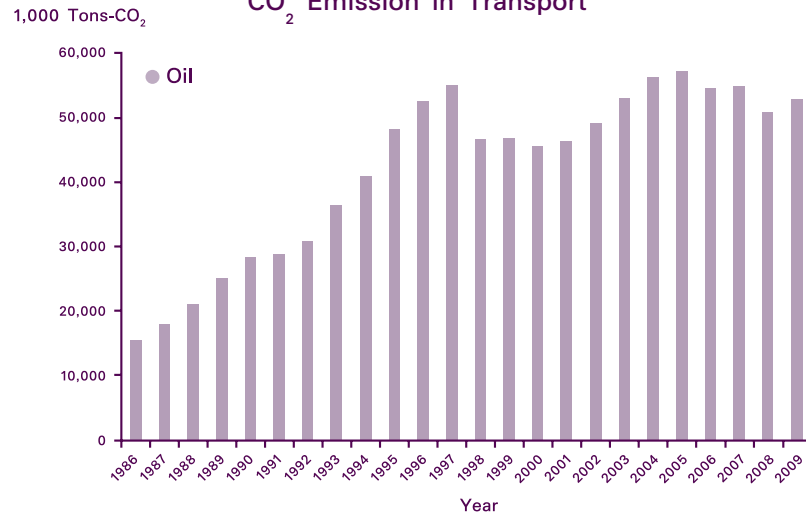


Year	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997
Oil	6,464	6,766	7,364	8,145	8,838	8,966	9,476	8,789	9,450	9,436	10,744	10,863

Year	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
Oil	12,884	13,774	13,495	13,839	14,609	15,591	16,371	15,474	16,220	17,017	17,438	18,157

● **Transportation Sector.** The major fuel that constituted the largest CO₂ emission source in this economic sector was petroleum products (gasoline, diesel, fuel oil, jet petroleum and LPG), having increased emissions from 15.62 million tons in 1986 to 55.24 million tons in 1997 before declining in 1998 when the economic crisis hit the country and hence decreasing energy consumption. After that there was a continuously upward trend of CO₂ emissions again, reaching 52.84 million tons in 2009.

CO₂ Emission in Transport

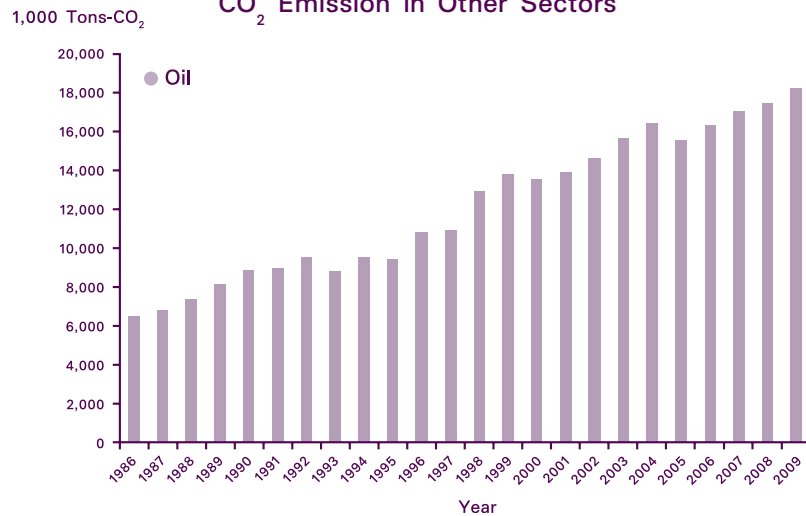


Year	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997
Oil	15,617	18,092	21,047	25,202	28,354	28,978	30,912	36,534	40,939	48,211	52,711	55,235

Year	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
Oil	46,741	46,893	45,560	46,531	49,240	52,996	56,483	57,383	54,601	55,071	50,877	52,838

● **Other Economic Sectors.** The trend still showed increasing CO₂ emissions from petroleum product consumption, rising from 6.46 million tons in 1986 to 18.16 million tons in 2009.

CO₂ Emission in Other Sectors



Year	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997
Oil	6,464	6,766	7,364	8,145	8,838	8,966	9,476	8,789	9,450	9,436	10,744	10,863

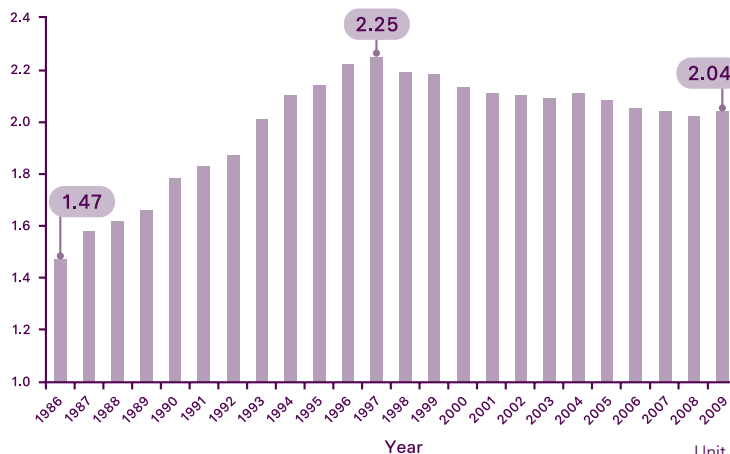
Year	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
Oil	12,884	13,774	13,495	13,839	14,609	15,591	16,371	15,474	16,220	17,017	17,438	18,157

ดัชนีชี้วัดการปล่อยก๊าซ CO₂

● การปล่อยก๊าซ CO₂ ต่อการใช้พลังงาน มีแนวโน้มเพิ่มสูงขึ้นในช่วงปี 1986-1997 จาก 1.47 พันตัน เป็น 2.25 พันตัน ต่อการใช้พลังงาน 1 KTOE หรือเพิ่มขึ้นเฉลี่ยร้อยละ 3.9 ต่อปี จากนั้นจึงลดลงอย่างชัดเจนตั้งแต่ปี 1998 ต่อเนื่องจนถึงปี 2009 ซึ่งมีการปล่อยก๊าซ CO₂ ที่ระดับ 2.04 พันตัน ต่อการใช้พลังงาน 1 KTOE เฉลี่ยลดลงร้อยละ 0.7 ต่อปี

CO₂ Emission per Primary Energy Consumption

1,000 Tons-CO₂/KTOE



Unit : 1,000 Tons-CO₂/KTOE

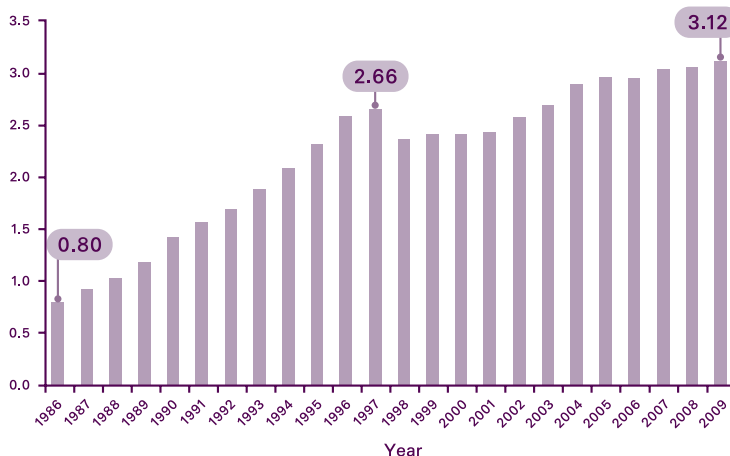
Year	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997
CO ₂	1.47	1.58	1.62	1.66	1.78	1.83	1.87	2.01	2.1	2.14	2.22	2.25

Year	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
CO ₂	2.19	2.18	2.13	2.11	2.10	2.09	2.11	2.08	2.05	2.04	2.02	2.04

● การปล่อยก๊าซ CO₂ ต่อคน (CO₂ Emission per Capita) มีอัตราการเติบโตค่อนข้างสูงในช่วงปี 1986-1997 โดยเฉลี่ยเพิ่มขึ้นร้อยละ 11.5 ต่อปี ก่อนจะลดต่ำลงเล็กน้อยในปี 1998 ตามการใช้พลังงานที่ลดลงจากภาวะเศรษฐกิจ และมีแนวโน้มเพิ่มขึ้นในปีต่อมาต่อเนื่องจนถึงปัจจุบันซึ่งมีการปล่อยก๊าซ CO₂ ที่ระดับ 3.12 ตันต่อคน เฉลี่ยเพิ่มขึ้นร้อยละ 2.6 ต่อปี

CO₂ Emission per Capita

Ton-CO₂/Person



Unit : Tons-CO₂/Person

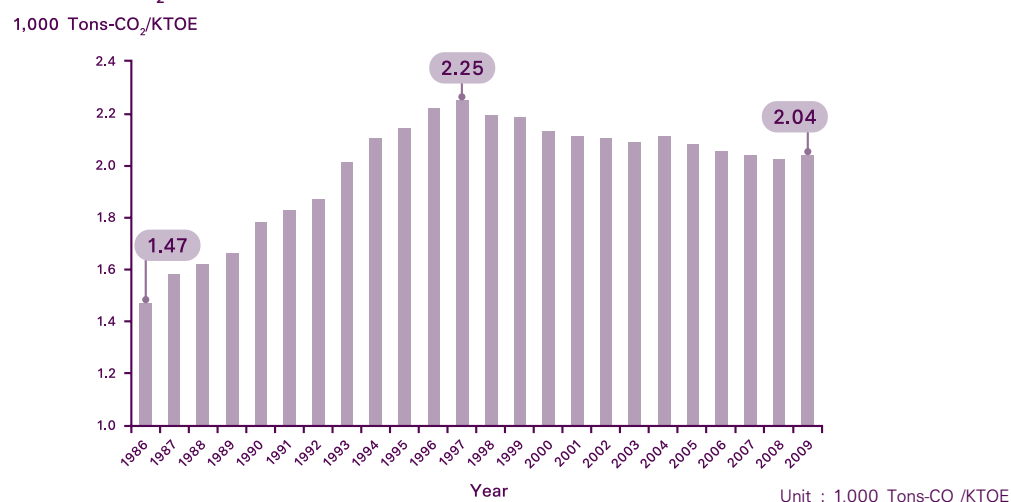
Year	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997
CO ₂	0.80	0.93	1.03	1.19	1.43	1.57	1.69	1.89	2.09	2.32	2.59	2.66

Year	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
CO ₂	2.37	2.42	2.42	2.44	2.58	2.69	2.90	2.96	2.95	3.04	3.06	3.12

CO₂ Emission Indicators

- **CO₂ Emission per (Primary) Energy Consumption.** This indicator reflects an increasing trend of emissions during the period 1986-1997, i.e. from 1.47 thousand tons to 2.25 thousand tons per 1 KTOE of energy consumption, or at an average annual growth rate of 3.9%. Since 1998, the emissions had continuously declined; in 2009 the level of CO₂ emissions was at 2.04 thousand tons per 1 KTOE of energy consumption, or a decrease at an average annual rate of 0.7%.

CO₂ Emission per Primary Energy Consumption

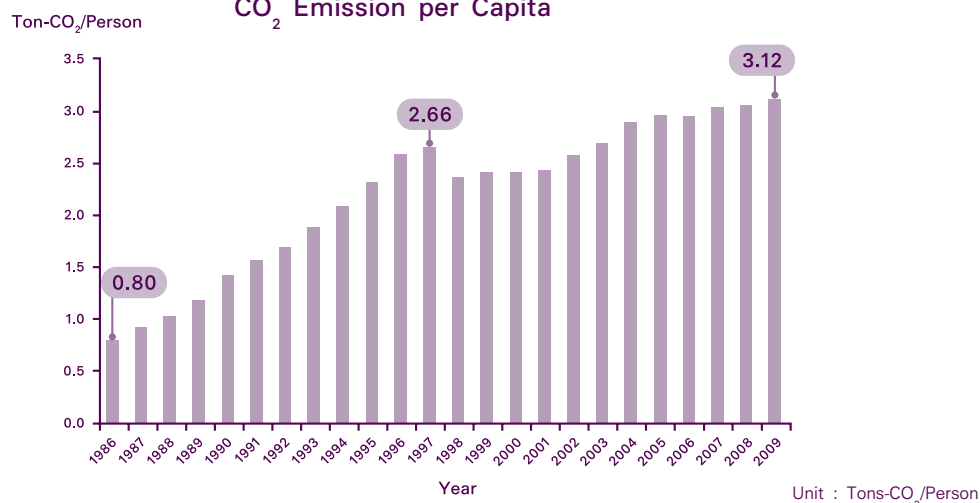


Year	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997
CO ₂	1.47	1.58	1.62	1.66	1.78	1.83	1.87	2.01	2.1	2.14	2.22	2.25

Year	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
CO ₂	2.19	2.18	2.13	2.11	2.10	2.09	2.11	2.08	2.05	2.04	2.02	2.04

- **CO₂ Emission per Capita.** This indicator illustrates a rather high growth rate during 1986-1997, with an average growth rate of 11.5% per year, before decreasing slightly in 1998 due to the shrinkage in energy consumption caused by the economic crisis. In 1999 a continuously rising trend resumed and in 2009 the CO₂ emission per capita stood at 3.12 tons, accounting for an average growth rate of 2.6% per year.

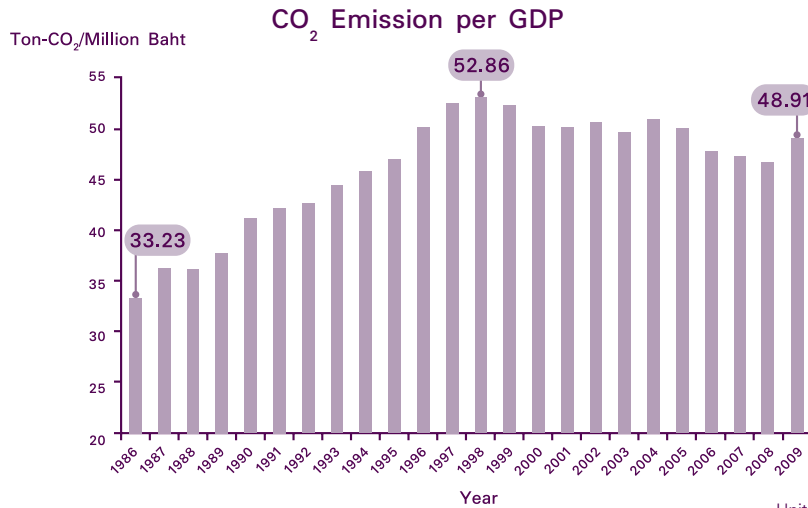
CO₂ Emission per Capita



Year	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997
CO ₂	0.80	0.93	1.03	1.19	1.43	1.57	1.69	1.89	2.09	2.32	2.59	2.66

Year	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
CO ₂	2.37	2.42	2.42	2.44	2.58	2.69	2.90	2.96	2.95	3.04	3.06	3.12

● การปล่อยก๊าซ CO₂ ต่อ GDP มีแนวโน้มเพิ่มขึ้นจาก 33.23 ตัน ในปี 1986 มาอยู่ที่ 52.42 ตัน ต่อ GDP 1 ล้านบาท ในปี 1997 เฉลี่ยเพิ่มขึ้นร้อยละ 4.2 ต่อปี โดยในปี 1998 มีการปล่อยก๊าซ CO₂ เพิ่มขึ้นเป็น 52.86 ตัน ต่อ 1 ล้านบาท ซึ่งเป็นอัตราสูงสุดของประเทศในรอบกว่า 20 ปีที่ผ่านมา จากนั้นจึงมีแนวโน้มลดลงจนถึงปัจจุบันซึ่งมีการปล่อยก๊าซ CO₂ ที่ระดับ 48.91 ตัน ต่อ GDP 1 ล้านบาท เฉลี่ยลดลงร้อยละ 0.7 ต่อปี

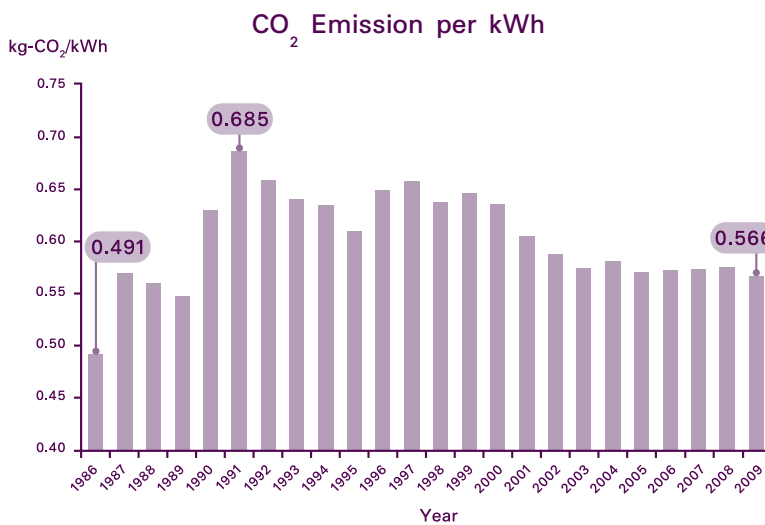


Unit : Tons-CO₂/Million Baht

Year	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997
CO ₂	33.23	36.20	36.04	37.67	41.02	42.03	42.48	44.27	45.63	46.81	49.93	52.42

Year	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
CO ₂	52.86	52.15	50.10	49.93	50.50	49.58	50.79	49.89	47.61	47.09	46.59	48.91

● การปล่อยก๊าซ CO₂ ต่อหน่วยการผลิตไฟฟ้า (kWh) มีการเปลี่ยนแปลงเป็นช่วงตามสัดส่วนเชื้อเพลิงที่ใช้ในการผลิตไฟฟ้า จาก 0.491 กิโลกรัม ต่อ 1 kWh ในปี 1986 เพิ่มขึ้นเป็น 0.685 กิโลกรัม ต่อ 1 kWh ในปี 1992 จากนั้นจึงเริ่มมีแนวโน้มลดลงตามสัดส่วนของก๊าซธรรมชาติที่นำมาใช้เป็นเชื้อเพลิงในการผลิตไฟฟ้ามากขึ้น โดยปี 2009 มีการปล่อยก๊าซ CO₂ ที่ระดับ 0.566 กิโลกรัม ต่อ 1 kWh

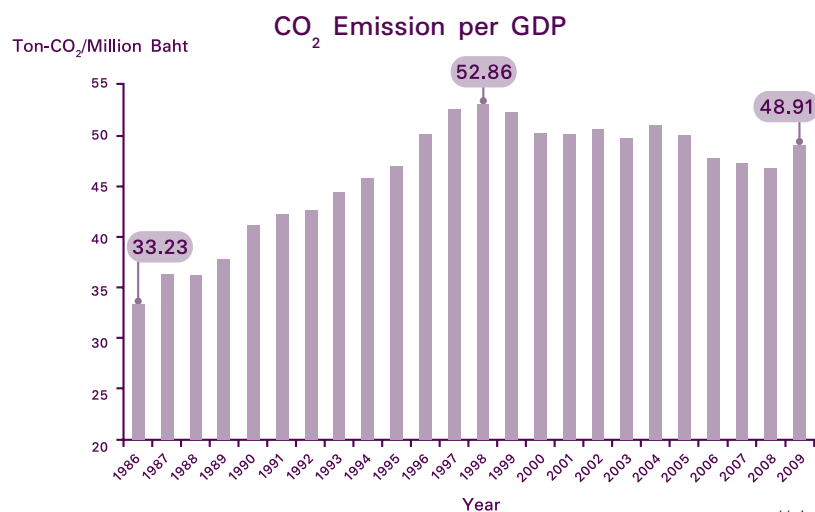


Unit : kg-CO₂/kWh

Year	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997
CO ₂	0.491	0.569	0.560	0.547	0.629	0.685	0.657	0.640	0.633	0.609	0.648	0.656

Year	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
CO ₂	0.636	0.645	0.634	0.604	0.587	0.573	0.581	0.570	0.571	0.572	0.575	0.566

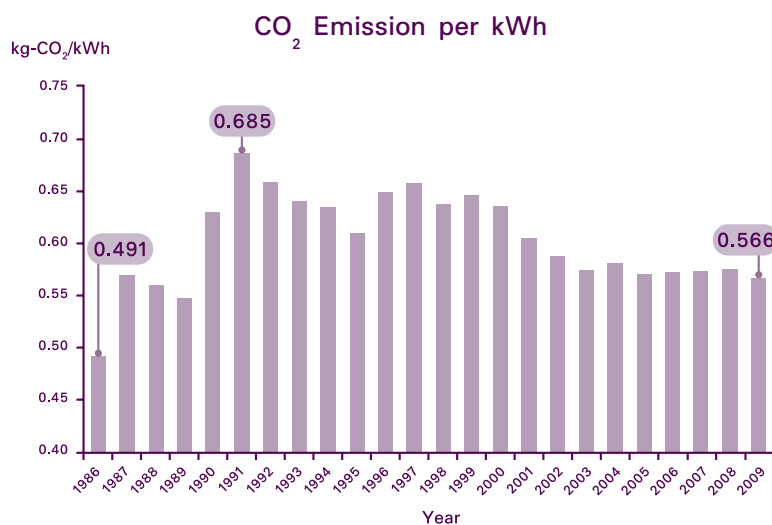
● **CO₂ Emission per GDP.** The trend had been increasing, from 33.23 tons in 1986 to 52.42 tons per one million Baht of GDP in 1997, or an average growth rate of 4.2% per year. In 1998, CO₂ emissions increased to 52.86 tons per one million Baht of GDP, which was the highest rate ever experienced in Thailand over the past 20 years. Then, the trend had declined; in 2009 CO₂ emission stood at 48.91 tons per one million Baht of GDP, or an average decrease of 0.7% per year.



Year	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997
CO ₂	33.23	36.20	36.04	37.67	41.02	42.03	42.48	44.27	45.63	46.81	49.93	52.42

Year	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
CO ₂	52.86	52.15	50.10	49.93	50.50	49.58	50.79	49.89	47.61	47.09	46.59	48.91

● **CO₂ Emission per Unit of Power Generation (kWh).** The emission varied periodically in accordance with the shares of fuel used in power generation, i.e. the emission increased from 0.491 kg/kWh in 1986 to 0.685 kg/kWh in 1992. After that the emission decreased due to greater use of natural gas as fuel in power generation. In 2009, CO₂ emission stood at 0.566 kg/kWh.



Year	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997
CO ₂	0.491	0.569	0.560	0.547	0.629	0.685	0.657	0.640	0.633	0.609	0.648	0.656

Year	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
CO ₂	0.636	0.645	0.634	0.604	0.587	0.573	0.581	0.570	0.571	0.572	0.575	0.566

Table 9.1-1Y
CO₂ Emission by Energy Type

Unit : 1,000 Tons

	Oil	Coal/Lignite	Natural Gas	Total
1986	29,740	6,607	5,427	41,774
1987	32,152	9,540	8,150	49,842
1988	36,609	9,824	9,777	56,210
1989	43,910	11,964	10,047	65,921
1990	53,221	16,594	9,987	79,802
1991	56,495	19,425	12,835	88,756
1992	62,417	20,790	13,754	96,962
1993	70,672	23,109	15,601	109,382
1994	78,419	26,664	17,793	122,876
1995	88,777	30,339	18,576	137,692
1996	96,916	36,777	21,860	155,553
1997	95,440	38,024	27,593	161,058
1998	85,309	30,637	29,400	145,345
1999	84,552	32,373	32,855	149,780
2000	79,242	33,100	38,385	150,727
2001	75,082	36,810	41,570	153,462
2002	78,851	39,244	45,377	163,472
2003	83,762	39,903	48,291	171,956
2004	91,671	44,763	50,902	187,336
2005	90,750	48,333	53,404	192,486
2006	87,210	51,313	54,613	193,136
2007	84,577	57,629	58,232	200,439
2008	78,403	62,154	62,624	203,181
2009	80,027	62,404	66,045	208,476
Growth Rate (%)				
1986	4.1	-5.6	-8.4	0.7
1987	8.1	44.4	50.2	19.3
1988	13.9	3.0	20.0	12.8
1989	19.9	21.8	2.8	17.3
1990	21.2	38.7	-0.6	21.1
1991	6.2	17.1	28.5	11.2
1992	10.5	7.0	7.2	9.3
1993	13.2	11.2	13.4	12.8
1994	11.0	15.4	14.1	12.3
1995	13.2	13.8	4.4	12.1
1996	9.2	21.2	17.7	13.0
1997	-1.5	3.4	26.2	3.5
1998	-10.6	-19.4	6.6	-9.8
1999	-0.9	5.7	11.8	3.1
2000	-6.3	2.2	16.8	0.6
2001	-5.3	11.2	8.3	1.8
2002	5.0	6.6	9.2	6.5
2003	6.2	1.7	6.4	5.2
2004	9.4	12.2	5.4	8.9
2005	-1.0	8.0	4.9	2.8
2006	-3.9	6.2	2.3	0.3
2007	-3.0	12.3	6.6	3.8
2008	-7.3	7.9	7.5	1.4
2009	2.1	0.4	5.5	2.6

Notes : 1. CO₂ Emission Factors Reference from IPCC2006

2. Emission Estimation Excluded Bunker Oil for Overseas, Jet Oil for International Flight and Renewable Energy

Table 9.1-2Y
CO₂ Emission from Energy Consumption by Sector

Unit : 1,000 Tons

	Power Generation	Transport	Industry	Other	Total
1986	12,476	15,617	7,217	6,464	41,774
1987	16,492	18,092	8,492	6,766	49,842
1988	18,380	21,047	9,419	7,364	56,210
1989	20,771	25,202	11,803	8,145	65,921
1990	28,149	28,354	14,460	8,838	79,802
1991	34,750	28,978	16,062	8,966	88,756
1992	37,799	30,912	18,775	9,476	96,962
1993	40,967	36,534	23,092	8,789	109,382
1994	45,559	40,939	26,929	9,450	122,876
1995	49,014	48,211	31,031	9,436	137,692
1996	56,887	52,711	35,211	10,744	155,553
1997	61,242	55,235	33,718	10,863	161,058
1998	57,974	46,741	27,746	12,884	145,345
1999	59,659	46,893	29,455	13,774	149,780
2000	62,405	45,560	29,267	13,495	150,727
2001	62,749	46,537	30,338	13,839	153,462
2002	65,265	49,245	34,352	14,609	163,472
2003	67,884	53,003	35,478	15,591	171,956
2004	74,099	56,546	40,321	16,371	187,336
2005	76,893	57,520	42,599	15,474	192,486
2006	81,028	54,831	41,057	16,220	193,136
2007	84,080	55,571	43,770	17,017	200,439
2008	85,226	52,524	47,993	17,438	203,181
2009	84,008	55,871	50,441	18,157	208,476
Growth Rate (%)					
1986	-5.1	6.4	-3.8	4.7	0.7
1987	32.2	15.9	17.7	4.7	19.3
1988	11.5	16.3	10.9	8.8	12.8
1989	13.0	19.7	25.3	10.6	17.3
1990	35.5	12.5	22.5	8.5	21.1
1991	23.5	2.2	11.1	1.4	11.2
1992	8.8	6.7	16.9	5.7	9.3
1993	8.4	18.2	23.0	-7.2	12.8
1994	11.2	12.1	16.6	7.5	12.3
1995	7.6	17.8	15.2	-0.1	12.1
1996	16.1	9.3	13.5	13.9	13.0
1997	7.7	4.8	-4.2	1.1	3.5
1998	-5.3	-15.4	-17.7	18.6	-9.8
1999	2.9	0.3	6.2	6.9	3.1
2000	4.6	-2.8	-0.6	-2.0	0.6
2001	0.6	2.1	3.7	2.6	1.8
2002	4.0	5.8	13.2	5.6	6.5
2003	4.0	7.6	3.3	6.7	5.2
2004	9.2	6.7	13.7	5.0	8.9
2005	3.8	1.7	5.7	-5.5	2.8
2006	5.4	-4.7	-3.6	4.8	0.3
2007	3.8	1.4	6.6	4.9	3.8
2008	1.4	-5.5	9.7	2.5	1.4
2009	-1.4	6.4	5.1	4.1	2.6

Notes : 1. CO₂ Emission Factors Reference from IPCC2006

2. Emission Estimation Excluded Bunker Oil for Overseas, Jet Oil for International Flight and Renewable Energy

Table 9.1-3Y
CO₂ Emission in Power Generation by Energy Type

Unit : 1,000 Tons

	Oil	Coal/Lignite	Natural Gas	Total
1986	2,705	4,551	5,221	12,476
1987	1,837	6,600	8,055	16,492
1988	2,520	6,231	9,629	18,380
1989	3,779	7,149	9,843	20,771
1990	8,097	10,437	9,615	28,149
1991	9,901	12,529	12,320	34,750
1992	11,630	13,129	13,039	37,799
1993	14,092	12,143	14,731	40,967
1994	16,061	12,847	16,651	45,559
1995	17,619	14,368	17,027	49,014
1996	19,185	17,506	20,196	56,887
1997	16,429	19,268	25,544	61,242
1998	13,997	16,529	27,448	57,974
1999	12,016	17,402	30,240	59,659
2000	7,559	20,321	34,526	62,405
2001	2,373	22,574	37,801	62,749
2002	2,141	21,977	41,147	65,265
2003	2,302	21,921	43,661	67,884
2004	5,576	23,037	45,486	74,099
2005	6,485	22,766	47,642	76,893
2006	6,331	26,723	47,975	81,028
2007	2,952	31,276	49,852	84,080
2008	1,211	32,376	51,639	85,226
2009	1,030	31,222	51,757	84,008
Growth Rate (%)				
1986	-3.4	-6.3	-4.8	-5.1
1987	-32.1	45.0	54.3	32.2
1988	37.2	-5.6	19.6	11.5
1989	50.0	14.7	2.2	13.0
1990	114.3	46.0	-2.3	35.5
1991	22.3	20.1	28.1	23.5
1992	17.5	4.8	5.8	8.8
1993	21.2	-7.5	13.0	8.4
1994	14.0	5.8	13.0	11.2
1995	9.7	11.8	2.3	7.6
1996	8.9	21.8	18.6	16.1
1997	-14.4	10.1	26.5	7.7
1998	-14.8	-14.2	7.5	-5.3
1999	-14.2	5.3	10.2	2.9
2000	-37.1	16.8	14.2	4.6
2001	-68.6	11.1	9.5	0.6
2002	-9.8	-2.6	8.9	4.0
2003	7.5	-0.3	6.1	4.0
2004	142.3	5.1	4.2	9.2
2005	16.3	-1.2	4.7	3.8
2006	-2.4	17.4	0.7	5.4
2007	-53.4	17.0	3.9	3.8
2008	-59.0	3.5	3.6	1.4
2009	-14.9	-3.6	0.2	-1.4

Notes : 1. CO₂ Emission Factors Reference from IPCC2006

2. Emission Estimation Excluded Bunker Oil for Overseas, Jet Oil for International Flight and Renewable Energy

Table 9.1-4Y
CO₂ Emission in Transport by Energy Type

Unit : 1,000 Tons

	Oil	Coal/Lignite	Natural Gas	Total
1986	15,617			15,617
1987	18,092			18,092
1988	21,047			21,047
1989	25,202			25,202
1990	28,354			28,354
1991	28,978			28,978
1992	30,912			30,912
1993	36,534			36,534
1994	40,939			40,939
1995	48,211			48,211
1996	52,711			52,711
1997	55,235			55,235
1998	46,741			46,741
1999	46,893			46,893
2000	45,560			45,560
2001	46,531		6	46,537
2002	49,240		6	49,245
2003	52,996		7	53,003
2004	56,483		63	56,546
2005	57,383		137	57,520
2006	54,601		230	54,831
2007	55,071		500	55,571
2008	50,877		1,647	52,524
2009	52,838		3,033	55,871
Growth Rate (%)				
1986	6.4			6.4
1987	15.9			15.9
1988	16.3			16.3
1989	19.7			19.7
1990	12.5			12.5
1991	2.2			2.2
1992	6.7			6.7
1993	18.2			18.2
1994	12.1			12.1
1995	17.8			17.8
1996	9.3			9.3
1997	4.8			4.8
1998	-15.4			-15.4
1999	0.3			0.3
2000	-2.8			-2.8
2001	2.1			2.1
2002	5.8		-0.6	5.8
2003	7.6		19.6	7.6
2004	6.6		849.3	6.7
2005	1.6		118.1	1.7
2006	-4.9		67.8	-4.7
2007	0.9		117.6	1.4
2008	-7.6		229.4	-5.5
2009	3.9		84.2	6.4

Notes : 1. CO₂ Emission Factors Reference from IPCC2006

2. Emission Estimation Excluded Bunker Oil for Overseas, Jet Oil for International Flight and Renewable Energy

Table 9.1-5Y
CO₂ Emission in Industry by Energy Type

Unit : 1,000 Tons

	Oil	Coal/Lignite	Natural Gas	Total
1986	4,955	2,056	206	7,217
1987	5,457	2,940	95	8,492
1988	5,679	3,593	147	9,419
1989	6,783	4,815	204	11,803
1990	7,932	6,157	371	14,460
1991	8,651	6,896	516	16,062
1992	10,399	7,661	715	18,775
1993	11,256	10,966	870	23,092
1994	11,970	13,817	1,142	26,929
1995	13,512	15,970	1,549	31,031
1996	14,276	19,271	1,664	35,211
1997	12,913	18,756	2,049	33,718
1998	11,686	14,108	1,951	27,746
1999	11,870	14,971	2,614	29,455
2000	12,629	12,779	3,859	29,267
2001	12,339	14,236	3,763	30,338
2002	12,862	17,266	4,224	34,352
2003	12,873	17,982	4,623	35,478
2004	13,240	21,726	5,354	40,321
2005	11,408	25,567	5,624	42,599
2006	10,058	24,590	6,408	41,057
2007	9,536	26,353	7,881	43,770
2008	8,877	29,778	9,338	47,993
2009	8,003	31,182	11,256	50,441
Growth Rate (%)				
1986	0.7	-4.1	-53.1	-3.8
1987	10.1	43.0	-53.8	17.7
1988	4.1	22.2	54.8	10.9
1989	19.5	34.0	38.8	25.3
1990	16.9	27.9	81.6	22.5
1991	9.1	12.0	38.9	11.1
1992	20.2	11.1	38.7	16.9
1993	8.2	43.1	21.7	23.0
1994	6.3	26.0	31.3	16.6
1995	12.9	15.6	35.6	15.2
1996	5.7	20.7	7.5	13.5
1997	-9.6	-2.7	23.1	-4.2
1998	-9.5	-24.8	-4.8	-17.7
1999	1.6	6.1	34.0	6.2
2000	6.4	-14.6	47.6	-0.6
2001	-2.3	11.4	-2.5	3.7
2002	4.2	21.3	12.2	13.2
2003	0.1	4.1	9.5	3.3
2004	2.9	20.8	15.8	13.7
2005	-13.8	17.7	5.1	5.7
2006	-11.8	-3.8	13.9	-3.6
2007	-5.2	7.2	23.0	6.6
2008	-6.9	13.0	18.5	9.7
2009	-9.9	4.7	20.5	5.1

Notes : 1. CO₂ Emission Factors Reference from IPCC2006

2. Emission Estimation Excluded Bunker Oil for Overseas, Jet Oil for International Flight and Renewable Energy

Table 9.1-6Y
CO₂ Emission in Other Economic Sectors by Energy Type

Unit : 1,000 Tons

	Oil	Coal/Lignite	Natural Gas	Total
1986	6,464			6,464
1987	6,766			6,766
1988	7,364			7,364
1989	8,145			8,145
1990	8,838			8,838
1991	8,966			8,966
1992	9,476			9,476
1993	8,789			8,789
1994	9,450			9,450
1995	9,436			9,436
1996	10,744			10,744
1997	10,863			10,863
1998	12,884			12,884
1999	13,774			13,774
2000	13,495			13,495
2001	13,839			13,839
2002	14,609			14,609
2003	15,591			15,591
2004	16,371			16,371
2005	15,474			15,474
2006	16,220			16,220
2007	17,017			17,017
2008	17,438			17,438
2009	18,157			18,157
Growth Rate (%)				
1986	4.7			4.7
1987	4.7			4.7
1988	8.8			8.8
1989	10.6			10.6
1990	8.5			8.5
1991	1.4			1.4
1992	5.7			5.7
1993	-7.2			-7.2
1994	7.5			7.5
1995	-0.1			-0.1
1996	13.9			13.9
1997	1.1			1.1
1998	18.6			18.6
1999	6.9			6.9
2000	-2.0			-2.0
2001	2.6			2.6
2002	5.6			5.6
2003	6.7			6.7
2004	5.0			5.0
2005	-5.5			-5.5
2006	4.8			4.8
2007	4.9			4.9
2008	2.5			2.5
2009	4.1			4.1

Notes : 1. CO₂ Emission Factors Reference from IPCC2006

2. Emission Estimation Excluded Bunker Oil for Overseas, Jet Oil for International Flight and Renewable Energy

Table 9.1-7Y
CO₂ Emission by Sector and Energy Type

Unit : 1,000 Tons

1986				
	Oil	Coal/Lignite	Natural Gas	Total
Power Generation	2,705	4,551	5,221	12,476
Transport	15,617			15,617
Industry	4,955	2,056	206	7,217
Other	6,464			6,464
Total	29,740	6,607	5,427	41,774
1987				
	Oil	Coal/Lignite	Natural Gas	Total
Power Generation	1,837	6,600	8,055	16,492
Transport	18,092			18,092
Industry	5,457	2,940	95	8,492
Other	6,766			6,766
Total	32,152	9,540	8,150	49,842
1988				
	Oil	Coal/Lignite	Natural Gas	Total
Power Generation	2,520	6,231	9,629	18,380
Transport	21,047			21,047
Industry	5,679	3,593	147	9,419
Other	7,364			7,364
Total	36,609	9,824	9,777	56,210
1989				
	Oil	Coal/Lignite	Natural Gas	Total
Power Generation	3,779	7,149	9,843	20,771
Transport	25,202			25,202
Industry	6,783	4,815	204	11,803
Other	8,145			8,145
Total	43,910	11,964	10,047	65,921
1990				
	Oil	Coal/Lignite	Natural Gas	Total
Power Generation	8,097	10,437	9,615	28,149
Transport	28,354			28,354
Industry	7,932	6,157	371	14,460
Other	8,838			8,838
Total	53,221	16,594	9,987	79,802
1991				
	Oil	Coal/Lignite	Natural Gas	Total
Power Generation	9,901	12,529	12,320	34,750
Transport	28,978			28,978
Industry	8,651	6,896	516	16,062
Other	8,966			8,966
Total	56,495	19,425	12,835	88,756
1992				
	Oil	Coal/Lignite	Natural Gas	Total
Power Generation	11,630	13,129	13,039	37,799
Transport	30,912			30,912
Industry	10,399	7,661	715	18,775
Other	9,476			9,476
Total	62,417	20,790	13,754	96,962
1993				
	Oil	Coal/Lignite	Natural Gas	Total
Power Generation	14,092	12,143	14,731	40,967
Transport	36,534			36,534
Industry	11,256	10,966	870	23,092
Other	8,789			8,789
Total	70,672	23,109	15,601	109,382

Notes : 1. CO₂ Emission Factors Reference from IPCC2006

2. Emission Estimation Excluded Bunker Oil for Overseas, Jet Oil for International Flight and Renewable Energy

Table 9.1-7Y (Cont.)
CO₂ Emission by Sector and Energy Type

Unit : 1,000 Tons

1994				
	Oil	Coal/Lignite	Natural Gas	Total
Power Generation	16,061	12,847	16,651	45,559
Transport	40,939			40,939
Industry	11,970	13,817	1,142	26,929
Other	9,450			9,450
Total	78,419	26,664	17,793	122,876
1995				
	Oil	Coal/Lignite	Natural Gas	Total
Power Generation	17,619	14,368	17,027	49,014
Transport	48,211			48,211
Industry	13,512	15,970	1,549	31,031
Other	9,436			9,436
Total	88,777	30,339	18,576	137,692
1996				
	Oil	Coal/Lignite	Natural Gas	Total
Power Generation	19,185	17,506	20,196	56,887
Transport	52,711			52,711
Industry	14,276	19,271	1,664	35,211
Other	10,744			10,744
Total	96,916	36,777	21,860	155,553
1997				
	Oil	Coal/Lignite	Natural Gas	Total
Power Generation	16,429	19,268	25,544	61,242
Transport	55,235			55,235
Industry	12,913	18,756	2,049	33,718
Other	10,863			10,863
Total	95,440	38,024	27,593	161,058
1998				
	Oil	Coal/Lignite	Natural Gas	Total
Power Generation	13,997	16,529	27,448	57,974
Transport	46,741			46,741
Industry	11,686	14,108	1,951	27,746
Other	12,884			12,884
Total	85,309	30,637	29,400	145,345
1999				
	Oil	Coal/Lignite	Natural Gas	Total
Power Generation	12,016	17,402	30,240	59,659
Transport	46,893			46,893
Industry	11,870	14,971	2,614	29,455
Other	13,774			13,774
Total	84,552	32,373	32,855	149,780
2000				
	Oil	Coal/Lignite	Natural Gas	Total
Power Generation	7,559	20,321	34,526	62,405
Transport	45,560			45,560
Industry	12,629	12,779	3,859	29,267
Other	13,495			13,495
Total	79,242	33,100	38,385	150,727
2001				
	Oil	Coal/Lignite	Natural Gas	Total
Power Generation	2,373	22,574	37,801	62,749
Transport	46,531		6	46,537
Industry	12,339	14,236	3,763	30,338
Other	13,839			13,839
Total	75,082	36,810	41,570	153,462

Notes : 1. CO₂ Emission Factors Reference from IPCC2006

2. Emission Estimation Excluded Bunker Oil for Overseas, Jet Oil for International Flight and Renewable Energy

Table 9.1-7Y (Cont.)
CO₂ Emission by Sector and Energy Type

Unit : 1,000 Tons

	2002			
	Oil	Coal/Lignite	Natural Gas	Total
Power Generation	2,141	21,977	41,147	65,265
Transport	49,240		6	49,245
Industry	12,862	17,266	4,224	34,352
Other	14,609			14,609
Total	78,851	39,244	45,377	163,472
	2003			
	Oil	Coal/Lignite	Natural Gas	Total
Power Generation	2,302	21,921	43,661	67,884
Transport	52,996		7	53,003
Industry	12,873	17,982	4,623	35,478
Other	15,591			15,591
Total	83,762	39,903	48,291	171,956
	2004			
	Oil	Coal/Lignite	Natural Gas	Total
Power Generation	5,576	23,037	45,486	74,099
Transport	56,483		63	56,546
Industry	13,240	21,726	5,354	40,321
Other	16,371			16,371
Total	91,671	44,763	50,902	187,336
	2005			
	Oil	Coal/Lignite	Natural Gas	Total
Power Generation	6,485	22,766	47,642	76,893
Transport	57,383		137	57,520
Industry	11,408	25,567	5,624	42,599
Other	15,474			15,474
Total	90,750	48,333	53,404	192,486
	2006			
	Oil	Coal/Lignite	Natural Gas	Total
Power Generation	6,331	26,723	47,975	81,028
Transport	54,601		230	54,831
Industry	10,058	24,590	6,408	41,057
Other	16,220			16,220
Total	87,210	51,313	54,613	193,136
	2007			
	Oil	Coal/Lignite	Natural Gas	Total
Power Generation	2,952	31,276	49,852	84,080
Transport	55,071		500	55,571
Industry	9,536	26,353	7,881	43,770
Other	17,017			17,017
Total	84,577	57,629	58,232	200,439
	2008			
	Oil	Coal/Lignite	Natural Gas	Total
Power Generation	1,211	32,376	51,639	85,226
Transport	50,877		1,647	52,524
Industry	8,877	29,778	9,338	47,993
Other	17,438			17,438
Total	78,403	62,154	62,624	203,181
	2009			
	Oil	Coal/Lignite	Natural Gas	Total
Power Generation	1,030	31,222	51,757	84,008
Transport	52,838		3,033	55,871
Industry	8,003	31,182	11,256	50,441
Other	18,157			18,157
Total	80,027	62,404	66,045	208,476

Notes : 1. CO₂ Emission Factors Reference from IPCC2006

2. Emission Estimation Excluded Bunker Oil for Overseas, Jet Oil for International Flight and Renewable Energy

APPENDIX I





APPENDIX I

Chapter 1
ENERGY SITUATION IN 2009

บทที่ 1
สถานการณ์พลังงานปี 2009

Table 1.1-1M
Primary Commercial Energy Production (Physical Unit)

2005													
Month	Hydro (GWh)	Lignite(Ton)			Total	NG (MMSCF)	Condensate (1000 BBL)	Crude Oil (1000 BBL)					
		EGAT		Others				Benjamas	Sirikit	Tantawan	Fang	Others	Total
		Mae-Moh	Krabi										
Jan	574	1,364,823	1,364,823	368,582	1,733,405	68,007	2,114	1,327	506	103	23	1,133	3,093
Feb	635	1,060,069	1,060,069	366,505	1,426,574	63,795	2,004	1,145	470	92	22	908	2,637
Mar	636	1,440,744	1,440,744	373,020	1,813,764	72,028	2,337	1,360	521	74	23	936	2,914
Apr	559	1,431,334	1,431,334	288,047	1,719,381	62,087	1,943	1,310	505	98	23	874	2,809
May	572	1,508,199	1,508,199	431,229	1,939,428	71,418	2,208	1,384	527	123	24	777	2,835
Jun	427	1,470,535	1,470,535	374,114	1,848,172	71,894	2,050	1,401	527	196	24	1,294	3,442
Jul	338	1,473,338	1,473,338	358,846	1,840,184	73,624	2,147	1,461	554	256	24	1,692	3,987
Aug	272	1,316,934	1,316,934	402,238	1,724,172	74,243	2,173	1,509	523	302	25	1,796	4,155
Sep	285	1,246,043	1,246,043	279,583	1,530,626	70,925	2,067	1,609	558	291	26	1,543	4,027
Oct	383	1,440,533	1,440,533	363,745	1,804,278	69,313	2,085	1,306	551	314	26	1,609	3,806
Nov	452	1,468,546	1,468,546	370,638	1,844,184	69,803	2,149	1,382	504	294	24	1,688	3,892
Dec	538	1,313,044	1,313,044	330,966	1,654,010	69,418	2,085	1,529	508	283	28	1,626	3,973
YTD	5,671	16,534,142	16,570,664	4,307,512	20,878,176	836,555	25,363	16,724	6,252	2,427	292	15,875	41,570

2006													
Month	Hydro (GWh)	Lignite(Ton)			Total	NG (MMSCF)	Condensate (1000 BBL)	Crude Oil (1000 BBL)					
		EGAT		Others				Benjamas	Sirikit	Tantawan	Fang	Others	Total
		Mae-Moh	Krabi										
Jan	629	1,409,844	1,409,844	292,175	1,712,019	72,708	2,294	1,557	535	282	32	1,637	4,043
Feb	683	1,107,546	1,107,546	300,012	1,412,558	65,979	2,147	1,400	488	257	27	1,492	3,664
Mar	756	1,227,563	1,227,563	364,469	1,592,032	74,266	2,398	1,589	580	243	29	1,659	4,100
Apr	662	1,237,717	1,237,717	247,199	1,491,916	69,281	2,210	1,513	566	263	29	1,647	4,018
May	536	1,493,423	1,493,423	208,923	1,702,346	72,718	2,383	1,649	621	272	29	1,660	4,231
Jun	516	1,487,520	1,487,520	265,313	1,757,833	71,340	2,310	1,559	545	259	28	1,590	3,980
Jul	542	1,377,792	1,377,792	262,688	1,643,480	73,109	2,309	1,629	605	262	30	1,472	3,998
Aug	668	1,259,477	1,259,477	212,158	1,475,635	72,588	2,380	1,508	590	235	30	1,651	4,014
Sep	706	1,422,428	1,422,428	370,399	1,797,827	70,927	2,386	1,545	551	224	31	1,521	3,872
Oct	846	1,330,055	1,330,055	218,804	1,553,859	72,672	2,318	1,497	539	235	30	1,282	3,583
Nov	663	1,192,509	1,192,509	263,979	1,461,488	72,159	2,188	1,513	595	223	31	1,537	3,898
Dec	743	1,217,924	1,217,924	244,693	1,469,617	71,015	2,143	1,293	638	273	29	1,433	3,665
YTD	7,950	15,763,798	15,819,798	3,250,810	19,070,608	858,763	27,466	18,251	6,853	3,028	354	18,580	47,067

Table 1.1-1M (Cont.)
Primary Commercial Energy Production (Physical Unit)

2007													
Month	Hydro (GWh)	Lignite(Ton)			Total	NG (MMSCF)	Condensate (1000 BBL)	Crude Oil (1000 BBL)					
		EGAT		Others				Benjamas	Sirikit	Tantawan	Fang	Others	Total
		Mae-Moh	Krabi										
Jan	754	1,333,519	6,000	1,339,519	1,593,791	73,460	2,319	1,352	628	279	29	1,435	3,724
Feb	777	1,221,321	10,000	1,231,321	1,520,802	67,222	2,040	1,199	578	225	27	1,721	3,751
Mar	845	1,294,427	11,112	1,305,539	1,577,560	77,829	2,411	1,368	661	257	31	2,147	4,463
Apr	733	1,362,232		1,362,232	1,76,806	74,588	2,290	1,311	646	233	30	2,011	4,232
May	541	1,290,552		1,290,552	1,41,488	81,616	2,474	1,330	603	224	30	1,927	4,114
Jun	678	1,259,365		1,259,365	1,68,950	78,796	2,380	1,272	609	203	29	1,977	4,090
Jul	706	1,569,910		1,569,910	207,137	80,642	2,569	1,355	680	162	29	1,949	4,175
Aug	644	1,416,810		1,416,810	169,193	81,050	2,610	1,242	628	171	26	1,894	3,961
Sep	530	1,400,167		1,400,167	108,334	75,128	2,325	1,089	604	220	27	2,041	3,981
Oct	440	1,247,035		1,247,035	76,044	77,849	2,492	1,146	625	290	31	1,870	3,963
Nov	553	1,407,742		1,407,742	106,286	73,621	2,394	1,368	608	291	30	2,055	4,353
Dec	761	1,314,729		1,314,729	124,243	76,116	2,476	1,345	615	257	35	2,058	4,309
YTD	7,961	16,117,809	27,112	16,144,921	2,094,255	917,917	28,778	15,378	7,486	2,812	354	23,085	49,115

2008													
Month	Hydro (GWh)	Lignite(Ton)			Total	NG (MMSCF)	Condensate (1000 BBL)	Crude Oil (1000 BBL)					
		EGAT		Others				Benjamas	Sirikit	Tantawan	Fang	Others	Total
		Mae-Moh	Krabi										
Jan	739	1,261,965		1,261,965	154,955	78,937	2,444	1,311	575	203	34	2,158	4,280
Feb	714	1,322,581		1,322,581	89,760	73,779	2,297	1,229	557	186	32	1,900	3,903
Mar	824	1,301,825	5,000	1,306,825	145,186	80,927	2,437	1,307	695	211	34	1,963	4,210
Apr	824	1,454,233		1,454,233	188,095	84,676	2,627	1,413	639	185	32	1,901	4,169
May	542	1,489,003	5,000	1,494,003	163,792	93,032	2,913	1,367	656	179	34	2,075	4,310
Jun	530	1,453,387	8,000	1,461,387	251,406	89,748	2,835	1,413	673	175	33	2,023	4,317
Jul	521	1,227,168	2,000	1,229,168	216,633	91,252	2,586	1,409	685	188	37	1,964	4,282
Aug	437	1,325,345	3,248	1,328,593	183,916	92,033	2,945	1,456	675	194	38	2,144	4,506
Sep	388	1,382,595		1,382,595	127,742	85,680	2,727	1,413	547	101	37	2,453	4,552
Oct	376	1,328,904		1,328,904	106,675	87,900	2,906	1,452	660	259	38	2,255	4,664
Nov	428	1,344,442		1,344,442	174,357	76,497	2,072	1,413	644	250	41	2,406	4,753
Dec	626	1,529,399		1,529,399	39,872	82,395	2,281	1,273	660	251	43	2,505	4,732
YTD	6,951	16,420,847	23,248	16,444,095	1,842,390	1,016,856	31,071	16,455	7,665	2,381	431	25,748	52,680

Table 1.1-1M (Cont.)
Primary Commercial Energy Production (Physical Unit)

Month	Hydro (GWh)	Lignite(Ton)				Total	NG (MMSCF)	Condensate (1000 BBL)	Crude Oil (1000 BBL)				Total	
		EGAT		Others	Total				Benjamas	Sirikit	Tantawan	Fang		Others
		Mae-Moh	Krabi											
Jan	743	1,468,620		1,468,620	93,065	1,561,685	89,297	2,513	1,331	667	280	39	2,443	4,762
Feb	715	1,174,194		1,174,194	138,458	1,312,652	77,109	2,328	1,119	601	248	35	2,181	4,183
Mar	810	1,254,630		1,254,630	211,163	1,465,793	94,185	2,793	1,450	646	268	35	2,666	5,065
Apr	719	1,227,083		1,227,083	217,794	1,444,877	84,015	2,351	815	668	99	38	3,160	4,780
May	540	1,413,339		1,413,339	154,931	1,568,270	97,526	2,612	222	687	116	38	3,713	4,777
Jun	368	1,435,227		1,435,227	177,569	1,612,796	90,670	2,624	802	615	167	39	3,004	4,626
Jul	369	1,469,759		1,469,759	178,411	1,648,170	89,842	2,626	812	664	194	37	2,995	4,701
Aug	584	1,279,005		1,279,005	217,282	1,496,287	90,983	2,686	896	648	193	41	2,931	4,709
Sep	392	1,254,357		1,254,357	125,811	1,380,168	91,238	2,484	792	639	183	38	2,479	4,132
Oct	476	1,143,009		1,143,009	109,720	1,252,729	93,542	2,607	645	642	207	40	2,699	4,234
Nov	517	1,237,910		1,237,910	115,830	1,353,740	92,919	2,379	822	630	174	37	3,160	4,823
Dec	733	1,274,633		1,274,633	194,300	1,468,933	100,188	2,620	902	677	132	37	3,686	5,434
YTD	6,966	15,631,766		15,631,766	1,934,334	17,566,100	1,091,516	30,623	10,609	7,783	2,262	454	35,116	56,225

Table 1.1-2M
Primary Commercial Energy Production

2005

Month	Hydro	Lignite(Ton)			NG	Crude Oil					Grand Total			
		EGAT		Total		Condensate	Benjamas	Sirikit	Tantawan	Fang		Others		
		Mae-Moh	Krabi										Non EGAT	Total
Jan	127	338	338	161	499	1,671	263	182	69	14	3	155	423	2,983
Feb	141	263	263	160	423	1,567	249	157	64	13	3	124	361	2,741
Mar	141	357	357	163	520	1,770	291	186	71	10	3	128	399	3,121
Apr	124	355	355	126	481	1,525	242	179	69	13	3	120	384	2,756
May	127	374	374	188	562	1,755	275	189	72	17	3	106	388	3,107
Jun	95	364	365	163	528	1,766	255	192	72	27	3	177	471	3,115
Jul	75	365	367	156	523	1,809	267	200	76	35	3	232	546	3,220
Aug	60	326	327	175	502	1,824	270	207	72	41	3	246	569	3,225
Sep	63	309	310	122	432	1,743	257	220	76	40	4	211	551	3,046
Oct	85	357	357	159	516	1,703	260	179	75	43	4	220	521	3,085
Nov	100	364	365	162	527	1,715	267	189	69	40	3	231	533	3,142
Dec	119	325	328	144	472	1,706	259	209	70	39	4	222	544	3,100
YTD	1,256	4,096	4,105	1,878	5,983	20,554	3,156	2,287	855	332	40	2,171	5,684	36,633

2006

Month	Hydro	Lignite(Ton)			NG	Crude Oil					Grand Total			
		EGAT		Total		Condensate	Benjamas	Sirikit	Tantawan	Fang		Others		
		Mae-Moh	Krabi										Non EGAT	Total
Jan	139	349	352	127	479	1,786	285	213	73	39	4	224	553	3,242
Feb	151	274	275	131	406	1,621	267	192	67	35	4	204	501	2,946
Mar	168	304	304	159	463	1,825	298	217	79	33	4	227	561	3,315
Apr	147	307	309	108	417	1,702	275	207	77	36	4	225	550	3,091
May	119	370	370	91	461	1,787	297	226	85	37	4	227	579	3,243
Jun	114	368	369	116	485	1,753	287	213	75	35	4	218	545	3,184
Jul	120	341	342	115	457	1,796	287	223	83	36	4	201	547	3,207
Aug	148	312	313	92	405	1,783	296	206	81	32	4	226	549	3,181
Sep	156	352	353	161	514	1,743	297	211	75	31	4	208	530	3,240
Oct	187	329	330	95	425	1,786	289	205	74	32	4	175	490	3,177
Nov	147	295	296	115	411	1,773	272	207	81	31	4	210	533	3,136
Dec	165	302	304	107	411	1,745	267	177	87	37	4	196	502	3,090
YTD	1,761	3,905	3,919	1,417	5,336	21,100	3,418	2,496	937	414	48	2,541	6,435	38,050

Table 1.1-2M (Cont.)
Primary Commercial Energy Production

Unit : KTOE

Month	2007														Grand Total	
	Hydro	Lignite(Ton)				NG	Condensate				Crude Oil					Grand Total
		Mae-Moh	EGAT		Non EGAT		Total	Benjamas	Sirikit	Tantawan	Fang	Others	Total			
			Krabi	Total										Total		
Jan	167	330	2	332	111	443	1,805	289	86	38	4	196	510	3,214		
Feb	172	303	3	306	126	432	1,652	254	79	31	4	236	513	3,023		
Mar	187	321	3	324	119	443	1,912	300	90	35	4	294	611	3,453		
Apr	162	337		337	77	414	1,833	285	88	32	4	275	579	3,273		
May	120	320		320	62	382	2,005	308	83	31	4	264	563	3,378		
Jun	150	312		312	74	386	1,936	296	83	28	4	271	560	3,328		
Jul	156	389		389	90	479	1,981	320	93	22	4	267	571	3,507		
Aug	143	351		351	74	425	1,991	325	86	23	4	259	542	3,426		
Sep	117	347		347	47	394	1,846	289	83	30	4	279	545	3,191		
Oct	97	309		309	33	342	1,913	310	86	40	4	256	542	3,204		
Nov	122	349		349	46	395	1,809	298	83	40	4	281	596	3,220		
Dec	169	326		326	54	380	1,870	308	84	35	5	282	590	3,317		
YTD	1,764	3,992	7	3,999	913	4,912	22,553	3,581	1,024	384	48	3,156	6,716	39,526		
Month	2008														Grand Total	
	Hydro	Lignite(Ton)				NG	Condensate				Crude Oil					Grand Total
		Mae-Moh	EGAT		Non EGAT		Total	Benjamas	Sirikit	Tantawan	Fang	Others	Total			
			Krabi	Total										Total		
Jan	164	313		313	68	381	1,939	304	79	28	5	295	586	3,374		
Feb	158	328		328	39	367	1,813	286	76	25	4	260	534	3,158		
Mar	183	322	1	323	63	386	1,988	303	95	29	5	269	576	3,436		
Apr	183	360		360	82	442	2,080	327	87	25	4	260	571	3,603		
May	120	369	1	370	71	441	2,286	363	90	24	5	284	590	3,800		
Jun	117	360	2	362	110	472	2,205	353	92	24	5	277	591	3,738		
Jul	115	304	1	305	94	399	2,242	322	94	26	5	269	586	3,664		
Aug	97	328	1	329	80	409	2,261	367	92	27	5	293	617	3,751		
Sep	86	342		342	56	398	2,105	339	75	14	5	336	623	3,551		
Oct	83	329		329	47	376	2,160	362	90	35	5	309	638	3,619		
Nov	95	333		333	76	409	1,880	258	88	34	6	329	650	3,292		
Dec	139	379		379	17	396	2,024	284	90	34	6	343	648	3,491		
YTD	1,540	4,067	6	4,073	803	4,876	24,984	3,867	1,048	326	59	3,521	7,203	42,470		

Unit : KTOE

Table 1.1-2M (Cont.)
Primary Commercial Energy Production

Month	2009											Grand Total		
	Hydro	Lignite(Ton)			NG	Condensate				Crude Oil				
		Mae-Moh	EGAT	Total		Non EGAT	Total	Benjamas	Sirikit	Tantawan	Fang		Others	Total
Jan	165	364	364	41	405	2,194	313	182	91	38	5	334	652	3,729
Feb	158	291	291	60	351	1,895	290	153	82	34	5	298	572	3,266
Mar	180	311	311	92	403	2,314	348	198	88	37	5	365	693	3,938
Apr	159	304	304	95	399	2,064	293	112	91	14	5	432	654	3,569
May	120	350	350	68	418	2,396	325	30	94	16	5	508	654	3,913
Jun	82	356	356	77	433	2,228	327	110	84	23	5	411	633	3,703
Jul	82	364	364	78	442	2,207	327	111	91	26	5	410	643	3,701
Aug	129	317	317	95	412	2,235	334	123	89	26	6	401	644	3,754
Sep	87	311	311	55	366	2,242	309	108	87	25	5	339	565	3,569
Oct	105	283	283	48	331	2,298	324	88	88	28	6	369	579	3,637
Nov	115	307	307	50	357	2,283	296	113	86	24	5	432	660	3,711
Dec	162	316	316	85	401	2,462	326	123	93	18	5	504	744	4,095
YTD	1,543	3,872	3,872	843	4,715	26,819	3,811	1,451	1,064	309	62	4,802	7,688	44,576

Table 1.1-3M
Primary Commercial Energy Import (Net) (Physical Unit)

Month	Coal				Crude Oil				Condensate				Petroleum Products (Million Litres)							Electricity		NG. (MMSCF)
	(Tons)	(M. Litres)	(M. Litres)	(BBLs)	(M. Litres)	(M. Litres)	(M. Litres)	(M. Litres)	(M. Litres)	(M. Litres)	(M. Litres)	(M. Litres)	(M. Litres)	(M. Litres)	(M. Litres)	(M. Litres)	(M. Litres)	(M. Litres)	(M. Litres)	(GWh)	(GWh)	
Jan	709,089	3,786			166	-139			60			-11			-150			-180	-254	236		24,237
Feb	673,489	3,336			23	-102			42			-11			-118			-112	-277	195		24,948
Mar	655,326	4,067			165	-136			-57			-14			110			-128	-60	306		27,380
Apr	706,579	3,614			231	-176			121			-12			127			-150	142	312		26,903
May	887,053	4,319			105	-139			51			-4			91			-165	-60	283		28,244
Jun	766,112	3,703			41	-148			-54			-42			212			-135	-126	410		27,608
Jul	441,862	4,044			50	-211	-4		-240			-13			180			-182	-418	435		26,515
Aug	974,436	3,764			206	-222			-365			-190			-131			-152	-854	492		27,048
Sep	696,926	3,587			19	-207			-151			-84			8			-134	-549	497		25,138
Oct	555,238	3,547			216	-186			-138			-125			24			-110	-319	379		27,130
Nov	871,683	2,577			-6	-175			-178			-4			99			-139	-403	442		25,780
Dec	630,500	3,884			110	-180			-182			-88			85			-168	-423	402		22,257
YTD	8,568,291	44,227			1,325	-2,022	-4		-1,090			-597			539			-1,755	-3,603	4,389		313,190
2006																						
Jan	678,579	3,796			203	-177			-218			-30			10			-191	-402	379		21,480
Feb	665,236	2,905			146	-150			-139			-119			-14			-104	-379	369		21,499
Mar	965,313	4,200			75	-131	-15		-101			-47			64			-92	-247	453		28,849
Apr	684,081	3,519			31	-201			3			15			86			-117	-183	413		25,241
May	1,118,729	4,146			79	-193			-143			-3			51			-99	-308	298		29,262
Jun	1,090,706	3,598			119	-157			-192			-15			-15			-73	-334	441		28,253
Jul	553,040	3,862			37	-184			-313			-129			45			-65	-609	502		27,503
Aug	1,040,253	4,027			183	-190	-5		-348			-181			-80			-56	-676	521		28,709
Sep	1,130,491	3,650			132	-163	-10		-368			-139			-65			-53	-666	510		27,424
Oct	1,110,899	3,837			96	-119			-292			-46			-52			-62	-476	440		26,897
Nov	1,132,689	2,899			71	-151	-5		-314			-155			-116			-57	-727	480		27,997
Dec	1,044,779	3,887			31	-106			-149			-135			-229			-98	-687	392		24,592
YTD	11,214,797	44,328			1,202	-1,922	-34		-2,576			-983			-314			-1,067	-5,694	5,197		317,705

Table 1.1-3M (Cont.)
Primary Commercial Energy Import (Net) (Physical Unit)

Month	2007											Electricity (GWh)	NG. (MMSCF)
	Coal (Tons)	Crude Oil (M. Litres)	Condensate (BBLs)	Petroleum Products (Million Litres)							Total		
				NAP.&OTHS	Gasoline	Kerosene	HSD	LSD	JP.	Fuel Oil			
Jan	1,025,088	3,168		116	-127		-156	-84	-128	-66	-444	337	25,557
Feb	888,193	4,068		72	-123	-10	-115	-25	-134	-100	-436	281	24,521
Mar	1,087,642	3,493		-146	-89		-141	-8	-152	-50	-586	390	29,537
Apr	1,107,507	3,954		121	-149	-5	-119	-6	-77	-54	-288	369	25,630
May	1,316,799	3,741		62	-173		-183	-132	-251	-59	-735	403	29,367
Jun	1,206,179	3,343		24	-94	-5	-205	-33	-157	-37	-508	336	28,663
Jul	1,131,101	3,826	51	11	-63	-7	-164	-17	-113	-30	-383	424	27,631
Aug	1,674,783	4,467		94	-119	-5	-213	-32	-234	-29	-538	337	27,781
Sep	1,272,497	3,279		6	-116	-5	-235	-5	-113	-19	-487	274	28,924
Oct	1,114,667	3,505		119	-132		-336	-5	-108	-29	-492	503	29,807
Nov	1,334,852	3,244		67	-73		-359	-7	-181	-22	-574	437	28,198
Dec	1,254,489	3,564		69	-159		-271	-53	-294	-19	-727	419	25,386
YTD	14,413,796	43,651	51	616	-1,417	-37	-2,498	-406	-1,942	-514	-6,198	4,510	331,002

Month	2008											Electricity (GWh)	NG. (MMSCF)
	Coal (Tons)	Crude Oil (M. Litres)	Condensate (BBLs)	Petroleum Products (Million Litres)							Total		
				NAP.&OTHS	Gasoline	Kerosene	HSD	LSD	JP.	Fuel Oil			
Jan	1,309,804	4,052		130	-191		-259	-91	-285	-16	-713	344	24,255
Feb	1,483,336	4,065		-47	-138		-147	-99	-285	-12	-726	172	26,922
Mar	1,322,245	4,462		132	-147	-10	-297	-100	-262	-683	-683	156	30,159
Apr	1,536,052	3,706		-2	-205		-176	-115	-61	-0	-559	264	20,743
May	1,510,234	4,126		-34	-83	-51	-374	-66	-321	-3	-933	168	25,698
Jun	1,245,740	3,456		71	-188		-315	-56	-240	-0	-728	228	24,875
Jul	1,363,819	3,481		-8	-177		-429	-115	-206	3	-932	279	26,916
Aug	1,252,980	3,979		-90	-129	-48	-405	-113	-387	-0	-1,173	275	27,491
Sep	1,310,956	3,070		-6	-63		-278	-61	-275	8	-676	331	27,422
Oct	1,383,522	3,886		-150	-33		-336	-134	-419	-1	-1,073	271	26,526
Nov	1,008,607	2,485		-217	-34		-328	-111	-206	-5	-901	184	22,168
Dec	1,251,705	3,789		-67	-91		-372	-239	-424	-2	-1,195	139	20,072
YTD	15,979,001	44,556		-291	-1,478	-109	-3,717	-1,299	-3,370	-28	-10,291	2,812	303,246

Table 1.1-3M (Cont.)
Primary Commercial Energy Import (Net) (Physical Unit)

Month	Coal (Tons)	Crude Oil (M. Litres)	Condensate (BBLs)	Petroleum Products (Million Litres)							Total	Electricity (GWh)	NG. (MMSCF)
				NAP.&OTHS	Gasoline	Kerosene	HSD	LSD	JP.	Fuel Oil			
Jan	893,980	3,420	-48	-134	-259	-101	-400	-2	-944	171	10,029		
Feb	1,136,571	2,701	-55	-46	-25	-105	-324	-2	-556	108	21,086		
Mar	1,320,589	4,642	27	-65	-43	-54	-327	-2	-464	134	20,698		
Apr	1,590,725	3,755	-96	-125	-350	-78	-328	-2	-978	112	23,966		
May	1,465,033	3,707	-69	-120	-596	-197	-278	-3	-1,264	150	28,009		
Jun	1,234,669	4,117	-110	-158	-6	-94	-500	-3	-1,141	184	27,876		
Jul	1,554,504	3,377	-138	-144	-329	-205	-329	-2	-1,147	248	26,711		
Aug	1,448,911	3,538	-75	-153	-564	-152	-294	-2	-1,240	277	29,306		
Sep	1,678,140	4,146	-87	-109	-466	-160	-328	-2	-1,152	207	28,028		
Oct	2,043,748	3,747	-181	-115	-635	-172	-193	-3	-1,298	275	30,219		
Nov	847,676	3,859	-167	-87	-364	-114	-224	-3	-965	337	28,312		
Dec	1,174,294	3,227	-142	-81	-510	-167	-269	-3	-1,179	279	19,307		
YTD	16,388,840	44,237	-1,141	-1,337	-19	-1,599	-3,795	-28	-12,330	2,483	293,548		

Unit : KTOE

Table 1.1-4M
Primary Commercial Energy Import (Net)

2005														
Month	Coal Import	Crude Oil	Condensate	Petroleum Products						Electricity	NG.	Grand Total		
				NAP.&OTHS	Gasoline	Kerosene	HSD	LSD	JP.				Fuel Oil	LPG
Jan	443	3,256		124	-104		51		-9	-142	-113	20	596	4,122
Feb	420	2,869		17	-76		36		-9	-111	-70	17	613	3,706
Mar	409	3,498		123	-102		-49		-11	104	-81	26	673	4,590
Apr	441	3,108		172	-131		105		-10	120	-95	27	661	4,398
May	554	3,714		78	-104		44		-3	86	-104	24	694	4,983
Jun	478	3,185		30	-110		-46		-34	200	-85	35	678	4,331
Jul	276	3,478		37	-157	-3	-207		-10	170	-115	37	651	4,157
Aug	608	3,237		153	-166		-314		-156	-123	-96	42	665	3,850
Sep	435	3,085		14	-154		-130		-69	8	-85	42	618	3,764
Oct	347	3,051		161	-138		-119		-102	22	-69	32	667	3,852
Nov	544	2,216		-5	-131		-153		-3	94	-88	38	633	3,145
Dec	394	3,340		82	-134		-157		-72	80	-106	34	547	4,008
YTD	5,348	38,035		987	-1,506	-3	-939		-488	508	-1,106	374	7,695	48,905

2006														
Month	Coal Import	Crude Oil	Condensate	Petroleum Products						Electricity	NG.	Grand Total		
				NAP.&OTHS	Gasoline	Kerosene	HSD	LSD	JP.				Fuel Oil	LPG
Jan	424	3,264		151	-132		-188		-24	10	-120	32	528	3,945
Feb	415	2,498		109	-112		-120		-97	-13	-66	31	528	3,173
Mar	603	3,612		56	-98	-12	-87		-38	60	-58	39	709	4,786
Apr	427	3,027		23	-150		3		12	81	-74	35	620	4,004
May	698	3,566		59	-144		-123		-3	48	-63	25	719	4,782
Jun	681	3,095		88	-117		-166		-12	-14	-46	38	694	4,241
Jul	345	3,321		28	-137		-270		-105	42	-41	43	676	3,902
Aug	649	3,464		137	-142	-4	-300		-148	-75	-35	44	705	4,295
Sep	706	3,139		98	-121	-8	-317		-113	-61	-33	43	674	4,007
Oct	693	3,284		71	-88		-252		-38	-49	-39	38	661	4,281
Nov	707	2,493		53	-112	-4	-271		-127	-109	-36	41	688	3,323
Dec	652	3,343		23	-79		-129		-111	-215	-62	33	604	4,059
YTD	7,000	38,122		896	-1,432	-28	-2,220		-804	-295	-672	443	7,806	48,816

Table 1.1-4M (Cont.)
Primary Commercial Energy Import (Net)

Unit : KTOE

Month	Coal Import	Crude Oil	Condensate	Petroleum Products							Electricity	NG.	Grand Total		
				NAP.&OTHS	Gasoline	Kerosene	HSD	LSD	JP.	Fuel Oil				LPG	Total
2007															
Jan	640	2,724		86	-94		-134	-68	-120	-41	-371	29	628	3,650	
Feb	554	3,498		54	-92	-8	-99	-21	-126	-63	-355	24	602	4,323	
Mar	679	3,004		-108	-66		-121	-7	-143	-32	-477	33	726	3,965	
Apr	691	3,401		90	-111	-4	-103	-5	-73	-34	-240	31	630	4,513	
May	822	3,217		46	-129		-157	-108	-236	-37	-621	34	722	4,174	
Jun	753	2,875		18	-70	-4	-177	-27	-148	-23	-431	29	704	3,930	
Jul	706	3,290		8	-47	-6	-142	-14	-106	-19	-326	36	679	4,385	
Aug	1,045	3,842		70	-89	-4	-184	-26	-220	-19	-472	29	683	5,127	
Sep	794	2,820		4	-86	-4	-203	-4	-106	-12	-411	23	711	3,937	
Oct	696	3,014		89	-99		-290	-4	-102	-18	-424	43	732	4,061	
Nov	833	2,790		50	-55		-309	-6	-171	-14	-505	37	693	3,848	
Dec	783	3,065		51	-118		-234	-43	-277	-12	-633	36	624	3,875	
YTD	8,997	37,540		459	-1,056	-30	-2,154	-332	-1,828	-324	-5,265	384	8,133	49,789	
2008															
Jan	818	3,484		97	-143		-223	-75	-268	-10	-622	29	596	4,305	
Feb	926	3,496		-35	-103		-127	-81	-268	-7	-621	15	661	4,477	
Mar	825	3,838		98	-109	-8	-256	-81	-247		-603	13	741	4,814	
Apr	959	3,188		-2	-153		-152	-94	-57		-458	22	510	4,221	
May	943	3,548		-26	-62	-41	-323	-54	-303	-2	-811	14	631	4,325	
Jun	778	2,972		53	-140		-272	-46	-226		-631	19	611	3,749	
Jul	851	2,994		-6	-132		-370	-94	-193	2	-793	24	661	3,737	
Aug	782	3,422		-67	-96	-40	-349	-93	-364		-1,009	23	675	3,893	
Sep	818	2,640		-5	-47		-239	-50	-259	5	-595	28	674	3,565	
Oct	864	3,342		-112	-25		-290	-109	-394		-930	23	652	3,951	
Nov	630	2,137		-162	-25		-283	-91	-193	-3	-757	16	545	2,571	
Dec	781	3,259		-50	-68		-321	-195	-399	-1	-1,034	12	493	3,511	
YTD	9,974	38,318		-217	-1,101	-89	-3,204	-1,062	-3,172	-17	-8,862	240	7,451	47,121	

Table 1.1-4M (Cont.)
Primary Commercial Energy Import (Net)

Unit : KTOE

Month	Coal Import	Crude Oil	Condensate	2009										Electricity	NG.	Grand Total
				NAP.&OTHS	Gasoline	Kerosene	HSD	LSD	JP.	Fuel Oil	LPG	Total				
Jan	558	2,942		-36	-99		-224			-83	-376	-1	-819	15	246	2,942
Feb	709	2,323		-41	-34		-21			-86	-305	-1	-488	9	518	3,071
Mar	824	3,992		20	-48		-37			-44	-308	-1	-418	11	509	4,918
Apr	993	3,229		-71	-93		-302			-63	-309	-1	-839	10	589	3,982
May	914	3,188		-52	-90		-514			-161	-262	-2	-1,081	13	688	3,722
Jun	771	3,541		-82	-118	-5	-233			-77	-471	-2	-988	16	685	4,025
Jul	970	2,904		-103	-107		-284			-168	-310	-1	-973	21	656	3,578
Aug	904	3,043		-56	-114		-486			-124	-277	-1	-1,058	24	720	3,633
Sep	1,047	3,566		-65	-82		-402			-130	-309	-1	-989	18	689	4,331
Oct	1,276	3,223		-135	-85		-548			-141	-182	-2	-1,093	23	742	4,171
Nov	529	3,318		-124	-65	-5	-314			-93	-211	-2	-814	29	696	3,758
Dec	733	2,775		-106	-61	-5	-439			-137	-253	-2	-1,003	24	474	3,003
YTD	10,230	38,044		-850	-996	-16	-3,802			-1,307	-3,572	-17	-10,560	212	7,212	45,138

Table 1.1-5M
Primary Commercial Energy Consumption (Physical Unit)

2005									
Month	Hydro / Import (GWh)	Lignite (Tons)				NG (MMSCF)	Petroleum (M.Litres)	Imported Coal (Tons)	
		EGAT			Others				Total
		Mae-Moh	Krabi	Total					
Jan	810	1,315,931		1,315,931	378,338	1,694,269	92,215	3,497	752,726
Feb	830	1,176,059		1,176,059	333,008	1,509,067	88,714	3,458	672,152
Mar	942	1,497,259		1,497,259	422,566	1,919,825	99,375	3,747	778,163
Apr	871	1,414,163		1,414,163	399,774	1,813,937	88,959	3,584	709,212
May	855	1,448,408		1,448,408	373,191	1,821,599	99,629	3,728	752,798
Jun	837	1,465,835		1,465,835	398,309	1,864,144	99,469	3,563	714,690
Jul	774	1,470,438		1,470,438	410,156	1,880,594	100,107	3,329	702,443
Aug	765	1,319,759		1,319,759	367,341	1,687,100	101,259	3,445	677,627
Sep	782	1,271,340		1,271,340	348,410	1,619,750	96,033	3,274	731,600
Oct	761	1,412,917		1,412,917	333,273	1,746,190	96,410	3,324	684,236
Nov	894	1,416,933		1,416,933	341,259	1,758,192	95,552	3,269	677,627
Dec	940	1,362,049		1,362,049	370,123	1,732,172	91,649	3,507	714,417
YTD	10,060	16,571,091		16,571,091	4,475,747	21,046,838	1,149,371	41,725	8,567,691

2006									
Month	Hydro / Import (GWh)	Lignite (Tons)				NG (MMSCF)	Petroleum (M.Litres)	Imported Coal (Tons)	
		EGAT			Others				Total
		Mae-Moh	Krabi	Total					
Jan	1,008	1,331,766		1,331,766	286,003	1,617,769	94,162	3,515	784,057
Feb	1,052	1,145,746		1,145,746	317,260	1,463,006	87,452	3,427	800,543
Mar	1,209	1,280,465		1,280,465	359,188	1,639,653	103,081	3,766	851,484
Apr	1,075	1,295,892		1,295,892	251,798	1,547,690	94,491	3,471	711,635
May	834	1,462,749		1,462,749	265,773	1,728,522	101,945	3,553	838,608
Jun	957	1,427,571		1,427,571	260,844	1,688,415	99,559	3,452	812,381
Jul	1,043	1,399,882		1,399,882	260,006	1,659,888	100,579	3,394	856,648
Aug	1,188	1,292,663		1,292,663	258,743	1,551,406	101,263	3,346	1,006,500
Sep	1,216	1,361,371		1,361,371	216,584	1,577,955	98,319	3,152	1,026,234
Oct	1,287	1,307,179		1,307,179	168,400	1,475,579	99,537	3,217	1,145,211
Nov	1,143	1,242,172		1,242,172	162,416	1,404,588	100,123	3,312	1,151,643
Dec	1,134	1,267,918		1,267,918	229,731	1,497,649	95,577	3,445	1,229,858
YTD	13,147	15,815,374		15,815,374	3,036,746	18,852,120	1,176,088	41,051	11,214,800

2007									
Month	Hydro / Import (GWh)	Lignite (Tons)				NG (MMSCF)	Petroleum (M.Litres)	Imported Coal (Tons)	
		EGAT			Others				Total
		Mae-Moh	Krabi	Total					
Jan	1,092	1,314,931		1,314,931	162,436	1,477,367	98,987	3,488	1,336,755
Feb	1,058	1,209,466		1,209,466	171,839	1,381,305	91,714	3,260	1,156,021
Mar	1,235	1,323,731		1,323,731	173,758	1,497,489	107,330	3,640	1,225,674
Apr	1,102	1,084,906		1,084,906	396,243	1,481,149	100,187	3,411	1,177,802
May	943	1,265,741		1,265,741	150,468	1,416,209	110,948	3,404	1,111,781
Jun	1,014	1,281,557		1,281,557	129,667	1,411,224	107,425	3,403	1,140,853
Jul	1,130	1,491,570		1,491,570	141,709	1,633,279	108,239	3,297	1,228,538
Aug	981	1,493,135		1,493,135	202,103	1,695,238	108,798	3,429	1,364,789
Sep	805	1,381,626		1,381,626	121,568	1,503,194	104,017	3,302	1,130,312
Oct	943	1,293,124		1,293,124	202,545	1,495,669	107,620	3,475	1,204,470
Nov	990	1,328,185		1,328,185	136,701	1,464,886	101,785	3,397	1,148,552
Dec	1,181	1,343,078		1,343,078	170,342	1,513,420	101,471	3,526	1,188,252
YTD	12,471	15,811,050		15,811,050	2,159,379	17,970,429	1,248,521	41,031	14,413,800

Table 1.1-5M (Cont.)
Primary Commercial Energy Consumption (Physical Unit)

2008									
Month	Hydro / Import (GWh)	Lignite (Tons)				NG (MMSCF)	Petroleum (M.Litres)	Imported Coal (Tons)	
		EGAT			Others				Total
		Mae-Moh	Krabi	Total					
Jan	1,083	1,317,911		1,317,911	155,859	1,473,770	103,163	3,540	1,469,823
Feb	886	1,291,476		1,291,476	200,731	1,492,207	100,668	3,332	1,345,107
Mar	980	1,354,518		1,354,518	238,846	1,593,364	111,051	3,641	1,382,163
Apr	1,088	1,414,483		1,414,483	183,093	1,597,576	105,393	3,593	1,440,553
May	711	1,491,436		1,491,436	188,339	1,679,775	118,699	3,387	1,389,090
Jun	759	1,372,230		1,372,230	230,523	1,602,753	114,593	3,088	1,339,820
Jul	799	1,262,475		1,262,475	191,082	1,453,557	118,136	3,044	1,349,033
Aug	711	1,334,370		1,334,370	185,890	1,520,260	119,490	3,150	1,307,357
Sep	719	1,386,029		1,386,029	200,477	1,586,506	113,069	3,012	1,329,979
Oct	648	1,337,526		1,337,526	180,396	1,517,922	114,394	3,229	1,343,548
Nov	613	1,366,674		1,366,674	113,379	1,480,053	98,638	3,107	1,191,295
Dec	765	1,478,337		1,478,337	55,472	1,533,809	102,443	3,408	1,091,230
YTD	9,763	16,407,465		16,407,465	2,124,087	18,531,552	1,319,738	39,532	15,978,998

2009									
Month	Hydro / Import (GWh)	Lignite (Tons)				NG (MMSCF)	Petroleum (M.Litres)	Imported Coal (Tons)	
		EGAT			Others				Total
		Mae-Moh	Krabi	Total					
Jan	914	1,461,488		1,461,488	111,470	1,572,958	99,315	3,565	1,263,858
Feb	824	1,144,939		1,144,939	157,131	1,302,070	98,170	3,095	1,175,270
Mar	945	1,255,136		1,255,136	247,544	1,502,680	114,859	3,469	1,232,822
Apr	831	1,313,460		1,313,460	234,662	1,548,122	107,953	3,294	1,476,347
May	689	1,370,259		1,370,259	183,435	1,553,694	125,502	3,435	1,429,756
Jun	552	1,463,154		1,463,154	194,639	1,657,793	118,513	3,170	1,523,201
Jul	616	1,451,536		1,451,536	165,359	1,616,895	116,521	3,277	1,485,606
Aug	861	1,304,125		1,304,125	179,357	1,483,482	120,255	3,262	1,388,027
Sep	599	1,243,891		1,243,891	134,061	1,377,952	119,232	3,161	1,466,541
Oct	752	1,287,741		1,287,741	41,449	1,329,190	123,725	3,382	1,297,875
Nov	854	1,227,355		1,227,355	193,949	1,421,304	121,197	3,276	1,277,912
Dec	1,012	1,295,181		1,295,181	199,472	1,494,653	119,472	3,680	1,371,626
YTD	9,448	15,818,265		15,818,265	2,042,529	17,860,794	1,384,714	40,065	16,388,840

Table 1.1-6M
Primary Commercial Energy Consumption

Unit : KTOE

2005											
Month	Hydro / Import (GWh)	Lignite (Tons)				Others	Total	NG	Petroleum	Imported Coal	Total
		EGAT									
		Mae-Moh	Krabi	Total							
Jan	147	326		326	180	506	2,266	2,877	470	6,266	
Feb	158	291		291	159	450	2,180	2,856	420	6,064	
Mar	167	371		371	202	573	2,442	3,104	486	6,772	
Apr	151	350		350	191	541	2,186	2,968	443	6,289	
May	151	359		359	178	537	2,448	3,093	470	6,699	
Jun	130	363		363	190	553	2,444	2,939	446	6,512	
Jul	112	364		364	196	560	2,460	2,745	438	6,315	
Aug	102	327		327	175	502	2,488	2,831	423	6,346	
Sep	105	315		315	166	481	2,360	2,699	457	6,102	
Oct	117	350		350	159	509	2,369	2,741	427	6,163	
Nov	138	351		351	163	514	2,348	2,680	423	6,103	
Dec	153	337		337	177	514	2,252	2,874	446	6,239	
YTD	1,630	4,105		4,105	2,135	6,240	28,240	34,407	5,348	75,865	

2006											
Month	Hydro / Import (GWh)	Lignite (Tons)				Others	Total	NG	Petroleum	Imported Coal	Total
		EGAT									
		Mae-Moh	Krabi	Total							
Jan	171	330		330	136	466	2,314	2,891	489	6,331	
Feb	182	284		284	151	435	2,149	2,839	500	6,105	
Mar	207	317		317	171	488	2,533	3,111	531	6,870	
Apr	182	321		321	120	441	2,322	2,862	444	6,251	
May	144	362		362	127	489	2,505	2,923	523	6,584	
Jun	152	354		354	124	478	2,446	2,846	507	6,429	
Jul	163	347		347	124	471	2,471	2,781	535	6,421	
Aug	192	320		320	123	443	2,488	2,729	628	6,480	
Sep	199	337		337	103	440	2,416	2,558	641	6,254	
Oct	225	324		324	80	404	2,446	2,605	715	6,395	
Nov	188	308		308	77	385	2,460	2,688	719	6,440	
Dec	198	314		314	110	424	2,348	2,796	768	6,534	
YTD	2,204	3,917		3,917	1,449	5,366	28,896	33,627	7,000	77,093	

2007											
Month	Hydro / Import (GWh)	Lignite (Tons)				Others	Total	NG	Petroleum	Imported Coal	Total
		EGAT									
		Mae-Moh	Krabi	Total							
Jan	196	326		326	77	403	2,432	2,832	834	6,697	
Feb	196	300		300	82	382	2,253	2,652	722	6,205	
Mar	220	328		328	83	411	2,637	2,966	765	6,999	
Apr	193	269		269	189	458	2,462	2,778	735	6,626	
May	154	314		314	72	386	2,726	2,763	694	6,723	
Jun	179	317		317	62	379	2,639	2,762	712	6,671	
Jul	192	369		369	68	437	2,659	2,663	767	6,718	
Aug	172	370		370	96	466	2,673	2,768	852	6,931	
Sep	140	342		342	58	400	2,556	2,676	706	6,478	
Oct	140	320		320	97	417	2,644	2,819	752	6,772	
Nov	159	329		329	65	394	2,501	2,745	717	6,516	
Dec	205	333		333	81	414	2,493	2,853	742	6,707	
YTD	2,148	3,916		3,916	1,030	4,946	30,676	33,277	8,997	80,044	

**Table 1.1-6M (Cont.)
Primary Commercial Energy Consumption**

Unit : KTOE

2008										
Month	Hydro / Import (GWh)	Lignite (Tons)				NG	Petroleum	Imported Coal	Total	
		EGAT			Others					Total
		Mae-Moh	Krabi	Total						
Jan	193	326		326	74	400	2,535	2,858	917	6,903
Feb	173	320		320	96	416	2,473	2,687	840	6,589
Mar	196	336		336	114	450	2,729	2,950	863	7,188
Apr	205	350		350	87	437	2,590	2,921	899	7,052
May	134	369		369	90	459	2,916	2,725	867	7,101
Jun	136	340		340	110	450	2,816	2,469	836	6,707
Jul	139	313		313	91	404	2,903	2,418	842	6,706
Aug	120	331		331	89	420	2,936	2,509	816	6,801
Sep	114	343		343	96	439	2,778	2,395	830	6,556
Oct	106	331		331	86	417	2,811	2,570	839	6,743
Nov	111	339		339	54	393	2,424	2,478	744	6,150
Dec	151	366		366	26	392	2,517	2,733	681	6,474
YTD	1,780	4,064		4,064	1,013	5,077	32,426	31,714	9,974	80,971

2009										
Month	Hydro / Import (GWh)	Lignite (Tons)				NG	Petroleum	Imported Coal	Total	
		EGAT			Others					Total
		Mae-Moh	Krabi	Total						
Jan	180	362		362	53	415	2,440	2,866	789	6,690
Feb	167	284		284	75	359	2,412	2,486	734	6,158
Mar	191	311		311	118	429	2,822	2,782	770	6,994
Apr	169	325		325	112	437	2,652	2,642	922	6,822
May	133	339		339	87	426	3,084	2,757	892	7,292
Jun	98	362		362	93	455	2,912	2,534	951	6,950
Jul	103	360		360	79	439	2,863	2,614	927	6,946
Aug	153	323		323	86	409	2,955	2,600	866	6,983
Sep	105	308		308	64	372	2,930	2,521	915	6,843
Oct	128	319		319	20	339	3,040	2,707	810	7,024
Nov	144	304		304	93	397	2,978	2,616	798	6,933
Dec	186	321		321	95	416	2,935	2,951	856	7,344
YTD	1,755	3,918		3,918	974	4,892	34,022	32,075	10,230	82,974

Table 1.2-1M
Final Modern Energy Consumption (Physical Unit)

2005															
Month	Solid Fossil Fuel (Thousand Tons)				Petroleum Products (Million Litres)					Electricity (GWh) *		NG in Industry (MMSCF)			
	Coal	Lignite	Total	LPG	Premium	Regular	JP.	Kerosene	Diesel	Fuel Oil	Total	Energy	NPC	Total	
Jan	572	378	950	355	238	373	375	2	1,727	372	3,444	9,350	8,876	1,115	9,991
Feb	557	333	890	326	241	374	337	2	1,701	327	3,307	9,650	7,320	1,058	8,378
Mar	650	423	1,073	369	237	362	363	2	1,834	400	3,567	10,823	8,468	1,096	9,564
Apr	559	400	958	337	244	369	353	2	1,706	362	3,374	10,498	7,476	1,098	8,574
May	616	373	989	351	237	368	350	2	1,822	386	3,517	11,449	8,213	1,003	9,217
Jun	526	398	924	362	257	384	330	2	1,705	354	3,394	10,885	7,995	1,127	9,122
Jul	506	410	916	369	227	349	358	2	1,466	407	3,178	10,624	8,074	1,100	9,174
Aug	465	367	833	385	251	377	360	2	1,566	348	3,289	10,577	9,062	1,067	10,129
Sep	536	348	884	363	232	346	349	2	1,410	363	3,065	10,538	9,033	1,027	10,060
Oct	513	333	847	375	228	339	356	2	1,449	351	3,099	10,752	8,746	1,083	9,829
Nov	492	341	833	373	238	350	369	2	1,507	335	3,174	10,333	7,988	984	8,972
Dec	502	370	872	399	256	369	392	2	1,649	349	3,416	9,675	8,519	959	9,479
YTD	6,495	4,476	10,971	4,364	2,886	4,362	4,293	21	19,545	4,354	39,825	125,154	99,772	12,717	112,489
2006															
Month	Solid Fossil Fuel (Thousand Tons)				Petroleum Products (Million Litres)					Electricity (GWh) *		NG in Industry (MMSCF)			
	Coal	Lignite	Total	LPG	Premium	Regular	JP.	Kerosene	Diesel	Fuel Oil	Total	Energy	NPC	Total	
Jan	580	286	866	386	239	364	411	2	1,616	363	3,381	9,825	8,709	1,076	9,785
Feb	627	317	945	362	214	331	369	2	1,528	314	3,120	9,909	7,947	948	8,895
Mar	653	359	1,012	400	245	378	396	2	1,724	364	3,509	11,428	8,919	1,124	10,044
Apr	535	252	787	372	238	371	372	2	1,567	350	3,272	10,637	7,886	1,058	8,944
May	546	266	812	411	227	380	365	2	1,629	330	3,344	11,244	9,401	1,065	10,465
Jun	575	261	836	406	217	375	347	2	1,477	359	3,182	11,301	8,749	1,024	9,773
Jul	550	260	810	443	217	379	361	2	1,441	317	3,161	11,279	8,847	1,045	9,892
Aug	542	259	801	469	211	381	362	2	1,438	341	3,203	11,268	9,547	1,098	10,645
Sep	589	217	806	456	203	380	353	2	1,371	314	3,079	11,125	8,884	1,003	9,887
Oct	640	168	808	464	210	398	372	2	1,432	305	3,183	11,065	9,630	1,046	10,676
Nov	621	162	783	443	213	407	389	2	1,536	290	3,280	11,054	9,809	1,025	10,834
Dec	807	230	1,037	461	222	414	420	2	1,592	308	3,419	10,655	9,474	1,113	10,587
YTD	7,265	3,037	10,302	5,074	2,656	4,559	4,519	20	18,350	3,956	39,134	130,789	107,803	12,624	120,427

Table 1.2-1M (Cont.)
Final Modern Energy Consumption (Physical Unit)

2007

Month	Petroleum Products (Million Litres)											Electricity (GWh) *		NG in Industry (MMSCF)	
	Solid Fossil Fuel (Thousand Tons)		LPG	Premium	Regular	JP.	Kerosene	Diesel	Fuel Oil	Total	Energy	NPC	Total		
	Coal	Lignite												Total	Total
Jan	841	162	1,004	467	210	403	441	2	1,644	316	3,482	10,203	11,385	1,142	12,527
Feb	705	172	876	430	200	373	414	1	1,501	314	3,234	10,041	10,461	852	11,313
Mar	770	174	944	471	216	418	429	2	1,718	321	3,575	12,028	10,798	1,007	11,806
Apr	722	396	1,118	441	211	403	406	1	1,573	306	3,340	11,348	10,752	1,138	11,890
May	586	150	737	471	209	396	413	2	1,561	302	3,354	11,803	11,579	1,302	12,882
Jun	572	130	702	475	215	403	376	2	1,574	292	3,338	11,973	10,777	1,455	12,233
Jul	729	142	870	486	217	400	396	1	1,498	291	3,290	11,817	10,466	1,416	11,882
Aug	928	202	1,130	514	226	412	411	1	1,555	207	3,326	11,835	11,227	1,335	12,562
Sep	600	122	722	495	219	374	386	2	1,436	263	3,176	11,678	10,606	1,275	11,881
Oct	671	203	874	519	233	387	400	2	1,499	329	3,369	11,663	12,586	1,290	13,875
Nov	727	137	864	524	226	363	420	1	1,533	276	3,344	11,205	12,266	1,250	13,516
Dec	814	170	984	520	241	380	439	1	1,610	224	3,415	11,119	12,232	1,298	13,529
YTD	8,665	2,159	10,825	5,812	2,625	4,712	4,932	18	18,702	3,441	40,242	136,712	135,136	14,760	149,896

2008

Month	Petroleum Products (Million Litres)											Electricity (GWh) *		NG in Industry (MMSCF)	
	Solid Fossil Fuel (Thousand Tons)		LPG	Premium	Regular	JP.	Kerosene	Diesel	Fuel Oil	Total	Energy	NPC	Total		
	Coal	Lignite												Total	Total
Jan	891	156	1,047	545	232	370	457	2	1,628	303	3,538	11,033	12,840	1,243	14,083
Feb	824	201	1,025	516	225	354	441	1	1,521	250	3,308	10,963	12,544	1,172	13,716
Mar	809	239	1,048	548	230	374	433	1	1,695	251	3,533	12,184	13,581	1,308	14,889
Apr	859	183	1,043	525	229	374	410	1	1,612	357	3,509	11,777	13,373	1,264	14,637
May	870	188	1,058	571	216	362	397	2	1,548	267	3,364	12,286	13,401	1,250	14,651
Jun	882	231	1,113	557	204	354	377	1	1,361	230	3,086	12,028	12,757	1,248	14,005
Jul	891	191	1,082	620	208	351	371	1	1,246	246	3,043	12,320	14,779	1,383	16,162
Aug	833	186	1,019	609	233	355	369	1	1,325	253	3,145	12,315	14,256	1,243	15,499
Sep	821	200	1,021	596	234	334	336	1	1,276	227	3,005	11,649	14,337	1,340	15,677
Oct	804	180	985	619	249	351	387	1	1,394	227	3,228	11,966	15,221	1,402	16,623
Nov	788	113	902	566	254	344	336	1	1,402	203	3,107	10,564	12,555	887	13,442
Dec	772	55	828	554	294	388	322	1	1,627	222	3,408	9,785	12,891	1,255	14,146
YTD	10,045	2,124	12,169	6,828	2,809	4,311	4,636	16	17,635	3,038	39,274	138,870	162,535	14,995	177,530

Table 1.2-1M (Cont.)
Final Modern Energy Consumption (Physical Unit)

Month	2009											NG in Industry (MMSCF)				
	Solid Fossil Fuel (Thousand Tons)				Petroleum Products (Million Litres)							Electricity (GWh) *		Energy	NPC	Total
	Coal	Lignite	Total	LPG	Premium	Regular	JP.	Kerosene	Diesel	Fuel Oil	Total					
Jan	769	111	880	558	287	378	396	1	1,718	218	3,556	9,619	14,278	1,442	15,720	
Feb	737	157	894	489	255	334	365	1	1,439	212	3,095	10,235	14,056	1,259	15,315	
Mar	701	248	949	559	289	373	405	2	1,624	214	3,465	11,909	15,986	1,351	17,338	
Apr	933	235	1,167	531	277	357	344	1	1,586	195	3,292	11,262	15,255	1,412	16,667	
May	921	183	1,105	557	284	368	349	1	1,658	215	3,433	12,100	16,044	1,328	17,372	
Jun	1,007	195	1,202	563	262	345	322	1	1,459	215	3,168	11,859	16,715	1,423	18,138	
Jul	957	165	1,122	598	269	362	356	1	1,471	218	3,276	12,009	16,360	1,456	17,816	
Aug	907	179	1,086	611	263	353	363	1	1,446	188	3,225	12,418	16,543	1,425	17,968	
Sep	967	134	1,101	588	254	346	347	2	1,394	229	3,159	12,116	17,501	1,372	18,873	
Oct	880	41	921	612	265	358	378	2	1,472	251	3,337	12,337	18,368	1,464	19,832	
Nov	892	194	1,086	600	248	339	390	2	1,473	215	3,267	11,686	18,356	1,420	19,776	
Dec	994	199	1,194	630	278	378	416	2	1,714	250	3,668	11,355	18,072	1,489	19,561	
YTD	10,665	2,043	12,708	6,894	3,233	4,292	4,431	18	18,452	2,620	39,940	138,904	197,533	16,841	214,375	

* : Including Power Generation from SPP

Unit : KTOE

Table 1.2-2M
Final Modern Energy Consumption

Month	2005													Total
	Solid Fossil Fuel			Petroleum Products						Electricity*		Natural Gas		
	Coal	Lignite	Total	LPG	Premium	Regular	JP.	Kerosene	Diesel	Fuel Oil	Total	Energy	NPC	
Jan	357	180	537	224	178	278	307	2	1,489	350	2,828	797	27	4,407
Feb	348	159	507	205	179	279	275	1	1,466	308	2,713	822	26	4,248
Mar	406	202	608	232	176	270	296	2	1,581	377	2,934	922	27	4,699
Apr	349	191	540	212	182	275	289	1	1,471	341	2,771	895	27	4,417
May	385	178	563	221	177	274	286	1	1,571	363	2,893	976	25	4,659
Jun	328	190	518	228	191	286	270	2	1,470	333	2,780	928	28	4,450
Jul	316	196	512	233	169	260	293	1	1,264	383	2,603	905	27	4,245
Aug	290	175	465	243	187	281	294	1	1,350	327	2,683	901	26	4,298
Sep	335	166	501	229	173	257	285	1	1,215	342	2,502	898	25	4,148
Oct	320	159	479	236	170	253	291	1	1,249	330	2,530	916	27	4,167
Nov	307	163	470	235	177	261	302	1	1,299	315	2,590	880	24	4,160
Dec	314	177	491	252	191	275	320	1	1,422	328	2,789	824	24	4,337
YTD	4,054	2,135	6,189	2,750	2,150	3,250	3,509	17	16,847	4,098	32,621	10,664	312	2,763

Month	2006													Total
	Solid Fossil Fuel			Petroleum Products						Electricity*		Natural Gas		
	Coal	Lignite	Total	LPG	Premium	Regular	JP.	Kerosene	Diesel	Fuel Oil	Total	Energy	NPC	
Jan	362	136	498	243	178	271	336	1	1,393	341	2,763	837	26	4,338
Feb	392	151	543	228	160	247	302	1	1,317	295	2,550	844	23	4,155
Mar	407	171	578	252	183	282	324	1	1,486	343	2,871	974	28	4,670
Apr	334	120	454	234	177	277	304	1	1,351	330	2,674	906	26	4,254
May	341	127	468	259	169	283	298	1	1,404	311	2,725	958	26	4,408
Jun	359	124	483	256	161	279	284	1	1,273	338	2,592	963	25	4,278
Jul	343	124	467	279	162	282	295	1	1,242	299	2,560	961	26	4,231
Aug	339	123	462	295	157	284	296	1	1,239	321	2,593	960	27	4,277
Sep	368	103	471	287	151	283	289	1	1,182	296	2,489	948	25	4,151
Oct	399	80	479	292	156	296	304	1	1,235	287	2,571	943	26	4,256
Nov	387	77	464	279	159	303	318	1	1,324	273	2,657	942	25	4,329
Dec	504	110	614	291	165	308	343	1	1,373	290	2,771	908	27	4,553
YTD	4,535	1,449	5,984	3,198	1,979	3,397	3,693	16	15,817	3,723	31,823	11,145	310	2,959

Table 1.2-2M (Cont.)
Final Modern Energy Consumption

Unit : KTOE

Month	2007															Total
	Solid Fossil Fuel					Petroleum Products					Electricity*	Natural Gas				
	Coal	Lignite	Total	LPG	Premium	Regular	JP.	Kerosene	Diesel	Fuel Oil		Total	Energy	NPC	Total	
Jan	525	77	602	294	156	300	361	1	1,417	297	2,826	869	280	28	4,605	
Feb	440	82	522	271	149	278	339	1	1,294	296	2,628	856	257	21	4,284	
Mar	481	83	564	297	161	311	350	1	1,481	302	2,903	1,025	265	25	4,782	
Apr	450	189	639	278	157	300	331	1	1,356	288	2,711	967	264	28	4,609	
May	366	72	438	297	156	295	338	1	1,346	284	2,717	1,006	285	32	4,478	
Jun	357	62	419	299	161	300	308	1	1,357	275	2,701	1,020	265	36	4,441	
Jul	455	68	523	306	162	298	324	1	1,291	274	2,656	1,007	257	35	4,478	
Aug	579	96	675	324	169	307	336	1	1,340	195	2,672	1,008	276	33	4,664	
Sep	374	58	432	312	163	279	316	1	1,238	248	2,557	995	261	31	4,276	
Oct	419	97	516	327	174	289	327	1	1,292	310	2,720	994	309	32	4,571	
Nov	454	65	519	330	169	270	343	1	1,322	260	2,695	955	301	31	4,501	
Dec	508	81	589	327	180	283	359	1	1,388	211	2,749	947	301	32	4,618	
YTD	5,409	1,030	6,439	3,663	1,956	3,510	4,031	15	16,120	3,239	32,534	11,649	3,320	363	54,305	

Month	2008															Total
	Solid Fossil Fuel					Petroleum Products					Electricity*	Natural Gas				
	Coal	Lignite	Total	LPG	Premium	Regular	JP.	Kerosene	Diesel	Fuel Oil		Total	Energy	NPC	Total	
Jan	556	74	630	344	173	276	373	1	1,404	286	2,857	940	315	31	4,773	
Feb	514	96	610	325	167	264	360	1	1,311	235	2,663	934	308	29	4,544	
Mar	505	114	619	345	171	279	354	1	1,461	237	2,848	1,038	334	32	4,871	
Apr	536	87	623	331	171	279	335	1	1,389	336	2,842	1,004	329	31	4,829	
May	543	90	633	360	161	270	325	1	1,335	252	2,704	1,047	329	31	4,744	
Jun	551	110	661	351	152	264	309	1	1,173	217	2,467	1,025	313	31	4,497	
Jul	556	91	647	391	155	261	304	1	1,074	232	2,418	1,050	363	34	4,512	
Aug	520	89	609	384	174	264	302	1	1,142	238	2,505	1,049	350	31	4,544	
Sep	512	96	608	376	174	249	275	1	1,100	214	2,389	993	352	33	4,375	
Oct	502	86	588	390	186	261	316	1	1,202	213	2,569	1,020	374	34	4,585	
Nov	492	54	546	357	189	256	274	1	1,209	191	2,477	900	308	22	4,253	
Dec	482	26	508	349	219	289	263	1	1,402	209	2,732	834	317	31	4,422	
YTD	6,270	1,013	7,283	4,303	2,093	3,212	3,790	13	15,201	2,859	31,471	11,833	3,993	368	54,948	

Table 1.2-2M (Cont.)
Final Modern Energy Consumption

Unit : KTOE

Month	Solid Fossil Fuel			Petroleum Products							Electricity*	Natural Gas		Total	
	Coal	Lignite	Total	LPG	Premium	Regular	JP.	Kerosene	Diesel	Fuel Oil		Total	Energy		NPC
Jan	480	53	533	351	214	282	324	1	1,480	205	2,857	820	35	386	4,596
Feb	460	75	535	308	190	248	298	1	1,240	200	2,485	872	31	376	4,268
Mar	438	118	556	352	215	278	331	1	1,400	202	2,779	1,015	33	426	4,776
Apr	582	112	694	335	206	266	282	1	1,367	184	2,641	960	35	410	4,705
May	575	87	662	351	212	274	285	1	1,429	202	2,754	1,031	33	427	4,874
Jun	629	93	722	355	196	257	263	1	1,257	202	2,531	1,010	35	446	4,709
Jul	597	79	676	377	201	269	291	1	1,268	205	2,612	1,023	36	438	4,749
Aug	566	86	652	385	196	263	297	1	1,247	177	2,566	1,058	35	441	4,717
Sep	604	64	668	370	189	258	283	1	1,201	216	2,518	1,032	34	464	4,682
Oct	549	20	569	385	198	267	309	1	1,269	236	2,665	1,051	36	487	4,772
Nov	557	93	650	378	185	253	319	1	1,270	202	2,608	996	35	486	4,740
Dec	621	95	716	397	207	282	340	2	1,477	235	2,940	968	37	481	5,105
YTD	6,657	974	7,631	4,344	2,409	3,198	3,622	14	15,906	2,466	31,959	11,836	414	5,267	56,693

* : Including Power Generation from SPP



APPENDIX I

Chapter 2 OIL

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บทที่ 2
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Table 2.1.1-1M
Production of Crude Oil

Unit : Barrel/Day

2005												
Month	Chaba	Bualauang	Songkhla	Big Oil Project	Sirikit	Nasanun	Tantawan	Jusmin	Banyen	Benjamas	Others	Total
Jan				26,984	16,315		3,338			42,821	10,308	99,766
Feb				23,484	16,794		3,303			40,906	9,704	94,191
Mar				21,421	16,796		2,402			43,871	9,516	94,006
Apr				23,451	16,817		3,266			43,667	6,426	93,627
May				21,274	16,988		3,981			44,647	4,567	91,457
Jun				28,370	17,563		6,531	6,681		46,706	8,879	114,730
Jul				33,623	17,865		8,274	11,541		47,114	10,204	128,621
Aug				36,443	16,860		9,748	9,985		48,688	12,305	134,029
Sep				34,624	18,592		9,684	9,961		53,640	7,717	134,218
Oct				31,917	17,764		10,124	10,716		42,124	10,122	122,767
Nov				38,032	16,813		9,788	9,945		46,066	9,082	129,726
Dec				37,462	16,391		9,128	9,948		49,321	5,924	128,174
YTD				29,794	17,129		6,650	5,768		45,819	8,729	113,890
2006												
Month	Chaba	Bualauang	Songkhla	Big Oil Project	Sirikit	Nasanun	Tantawan	Jusmin	Banyen	Benjamas	Others	Total
Jan				38,382	17,266		9,112	9,540		50,225	5,903	130,428
Feb				38,590	17,421		9,167	9,600		50,016	6,058	130,852
Mar				38,980	18,701		7,848	10,346		51,246	5,127	132,248
Apr				41,119	18,877		8,778	9,891		50,421	4,851	133,937
May				41,040	20,029		8,766	9,495		53,204	3,959	136,493
Jun				40,376	18,171		8,625	9,029		51,961	4,513	132,675
Jul				36,213	19,512		8,459	8,588		52,541	3,640	128,953
Aug				41,987	19,033		7,570	8,139		48,645	4,102	129,476
Sep				39,924	18,368		7,463	7,532		51,510	4,269	129,066
Oct				31,299	17,400		7,570	7,085		48,294	3,938	115,586
Nov				40,148	19,817		7,441	7,778		50,425	4,336	129,945
Dec				36,307	20,583		8,804	6,841		41,698	4,003	118,236
YTD				38,679	18,775		8,296	8,649		50,004	4,547	128,950

**Table 2.1.1-1M (Cont.)
Production of Crude Oil**

Unit : Barrel/Day

2007												
Month	Chaba	Bualuang	Songkhla	Big Oil Project	Sirikit	Nasanun	Tantawan	Jusmin	Banyen	Benjamas	Others	Total
Jan				33,459	20,260		9,000	9,732		43,623	4,040	120,114
Feb				40,018	20,652	333	8,035	17,944		42,825	4,146	133,953
Mar				43,841	21,314	313	8,280	21,551		44,125	4,540	143,964
Apr				42,683	21,544	314	7,768	20,542		43,706	4,501	141,058
May				39,436	19,449	312	7,230	19,515		42,906	3,859	132,707
Jun				39,533	20,315	950	6,756	19,873		42,396	6,508	136,331
Jul				36,871	21,937	652	5,240	21,050		43,713	5,230	134,693
Aug				36,287	20,273	606	5,509	21,043		40,071	3,999	127,788
Sep				42,970	20,147	593	7,324	21,126		36,301	4,248	132,709
Oct				34,483	20,159	2,404	9,367	19,799		36,975	4,645	127,832
Nov				41,811	20,272	3,868	9,697	19,797		45,613	4,039	145,097
Dec				39,589	19,826	4,024	8,285	19,241		43,384	4,646	138,995
YTD				39,215	20,511	1,202	7,703	19,267		42,132	4,533	134,563
2008												
Month	Chaba	Bualuang	Songkhla	Big Oil Project	Sirikit	Nasanun	Tantawan	Jusmin	Banyen	Benjamas	Others	Total
Jan				40,914	18,536	6,528	6,539	18,950		42,301	4,310	138,078
Feb				35,635	19,205	8,732	6,399	17,990		42,366	4,275	134,602
Mar				34,340	22,421	8,170	6,810	17,427		42,161	4,481	135,810
Apr				36,365	21,298	6,088	6,150	17,443		47,088	4,533	138,965
May				40,395	21,151	6,642	5,760	16,460		44,101	4,529	139,038
Jun				40,980	22,427	6,461	5,844	16,482		47,094	4,627	143,915
Jul				37,545	22,085	6,605	6,055	15,938		45,453	4,455	138,135
Aug	391			37,052	21,766	6,950	6,257	21,562		46,974	4,411	145,363
Sep	12,060			35,815	18,246	7,503	3,381	23,183		47,088	4,457	151,733
Oct	11,671			23,953	21,293	10,868	8,351	23,033		46,844	4,435	150,448
Nov	5,691	3,502		31,408	21,466	12,304	8,336	15,559	8,339	47,088	4,751	158,444
Dec	10,000			32,387	21,293	11,831	8,096	15,447	8,985	41,071	3,537	152,647
YTD	3,324		287	35,559	20,942	8,222	6,505	18,292	1,445	44,960	4,399	143,935

Table 2.1.1-1M (Cont.)
Production of Crude Oil

Unit : Barrel/Day

2009												
Month	Chaba	Bualuang	Songkhla	Big Oil Project	Sirikit	Nasanun	Tantawan	Jusmin	Banyen	Benjamas	Others	Total
Jan	7,725	6,955	1,019	33,137	21,529	12,745	9,047	14,463	8,422	42,941	3,590	153,599
Feb	6,144	6,955	1,019	34,796	21,464	10,032	8,843	14,741	8,151	39,948	3,430	149,379
Mar	3,078	6,144	8,367	36,086	20,838	8,431	8,653	12,925	8,083	46,786	4,010	163,401
Apr	7,725	6,146	8,646	34,854	22,268	8,351	3,292	12,911	8,107	27,166	19,852	159,318
May	13,213	13,213	6,584	33,549	22,147	16,130	3,746	13,213	7,615	7,172	30,725	154,094
Jun	9,323	11,907	5,156	33,721	20,500	8,111	5,553	9,046	4,300	26,741	19,856	154,214
Jul	7,093	10,768	4,524	30,464	21,411	7,103	6,246	12,630	6,097	26,199	19,120	151,655
Aug	6,625	10,768	7,545	27,957	20,905	5,771	6,236	12,630	6,097	28,916	18,464	151,914
Sep	875	11,127	2,187	31,773	21,285	5,389	6,113	13,051	6,300	26,405	13,213	137,718
Oct	5,698	8,205	4,755	29,428	20,720	5,250	6,679	15,134	4,941	20,805	14,951	136,566
Nov	5,815	7,123	6,764	39,509	20,995	5,906	5,809	16,646	7,123	27,405	17,666	160,761
Dec	6,739	6,739	4,900	40,169	21,837	6,913	4,266	16,262	4,047	29,094	41,061	175,288
YTD	3,862	8,916	5,063	33,766	21,324	8,346	6,196	13,637	6,596	29,067	17,269	154,041

Source : Department of Mineral Fuels (DMF)
Compiled by : Energy Policy and Planning Office (EPPO)

Table 2.1.1-2M
Production of Condensate

Unit : Barrel/Day

2005												
Month	Pailin	Erawan	Bannpot	Satun	Gomin	Phuorm	Funan & Jakrawan	Bongkot	Arthit	Trat	Others	Total
Jan	18,949	12,230	402	4,582	4,711		7,176	18,123		1,502	528	68,202
Feb	19,880	11,786	1,040	3,948	4,326		7,962	19,756		1,919	955	71,572
Mar	19,490	12,168	4,038	4,190	5,790		7,476	19,857		1,900	493	75,403
Apr	21,090	11,113	3,989	5,806	4,432		6,410	10,108		1,166	655	64,770
May	21,572	11,271	2,824	4,717	4,769		4,933	18,974		1,630	546	71,236
Jun	21,759	10,436	2,310	3,350	4,749		4,734	19,577		871	563	68,347
Jul	20,820	12,151	1,927	4,290	4,137		5,493	19,470		741	228	69,258
Aug	22,355	12,143	1,148	3,463	3,484		6,581	19,073		1,492	346	70,086
Sep	23,419	10,608	800	2,794	3,300		6,227	18,941		1,652	1,145	68,884
Oct	23,425	10,621	817	2,800	3,309		6,195	17,297		1,656	1,150	67,271
Nov	22,548	12,393	1,202	2,003	2,727		6,637	17,586		4,750	1,775	71,621
Dec	24,045	12,230	816	1,116	2,527		5,277	15,320		4,534	1,393	67,259
YTD	21,620	11,599	1,779	3,586	4,022		6,247	17,839		1,984	811	69,487

2006												
Month	Pailin	Erawan	Bannpot	Satun	Gomin	Phuorm	Funan & Jakrawan	Bongkot	Arthit	Trat	Others	Total
Jan	24,115	11,546	785	1,503	2,718		6,179	18,240		7,580	1,339	74,006
Feb	25,896	11,852	680	1,873	2,587		7,283	18,312		6,801	1,406	76,690
Mar	26,193	11,378	855	2,605	2,516		7,412	19,557		6,024	801	77,342
Apr	26,240	11,029	420	3,169	1,414		9,722	15,432		5,243	983	73,653
May	26,094	11,276	4,046	2,086	965		8,905	18,190		4,277	1,033	76,873
Jun	25,967	11,298	5,737	2,385	620		8,680	18,680		2,641	978	76,987
Jul	22,930	11,446	6,159	3,102	672		7,925	18,642		3,479	134	74,489
Aug	25,269	11,453	6,128	2,749	851		7,826	17,327		5,023	164	76,790
Sep	27,003	11,464	4,045	3,467	571		8,470	19,088		4,612	805	79,525
Oct	24,753	10,565	4,120	2,661	984		9,426	17,386		4,133	759	74,787
Nov	25,455	10,156	4,103	1,700	476		9,071	16,696		4,557	721	72,935
Dec	23,490	9,805	3,643	2,629	325	374	8,716	14,703		4,865	581	69,131
YTD	25,269	11,101	3,414	2,497	1,219	32	8,302	17,685		4,928	803	75,250

Table 2.1.1-2M (Cont.)
Production of Condensate

Unit : Barrel/Day

2007												
Month	Pailin	Erawan	Bannpot	Satun	Gomin	Phuhorm	Funan & Jakrawan	Bongkot	Arthit	Trat	Others	Total
Jan	23,645	12,141	3,814	2,139	393	374	10,039	16,363		5,156	754	74,818
Feb	24,976	10,940	3,490	2,209	418	497	9,159	16,645		3,572	935	72,841
Mar	25,811	11,993	3,398	4,267	390	465	10,781	17,135		2,319	1,220	77,779
Apr	25,413	12,041	3,940	4,098	265	490	12,349	13,983		3,193	556	76,328
May	24,907	11,880	2,936	4,256	389	495	12,912	17,351		3,482	1,184	79,792
Jun	24,863	10,598	4,111	4,627	617	486	12,543	17,437		3,099	964	79,345
Jul	25,671	10,601	3,806	4,658	858	419	12,898	18,804		3,534	1,619	82,868
Aug	27,380	10,342	3,875	4,665	1,246	517	11,693	19,612		4,253	596	84,179
Sep	23,912	10,484	4,045	4,405	922	374	11,182	19,047		2,562	570	77,503
Oct	25,704	11,070	4,757	4,464	375	415	11,093	19,638		2,329	532	80,377
Nov	25,256	11,639	3,811	4,050	448	490	13,252	18,691		1,857	294	79,788
Dec	25,687	11,720	3,955	3,220	269	551	12,872	19,525		1,963	103	79,865
YTD	25,276	11,291	3,829	3,931	550	464	11,746	17,869		3,111	778	78,845
2008												
Month	Pailin	Erawan	Bannpot	Satun	Gomin	Phuhorm	Funan & Jakrawan	Bongkot	Arthit	Trat	Others	Total
Jan	24,412	11,419	3,963	4,003	70	374	13,353	19,301		1,745	193	78,833
Feb	22,971	11,842	3,759	4,400	51	363	13,915	19,850		1,827	244	79,222
Mar	22,023	11,042	3,497	4,353	281	529	13,573	20,735	685	1,552	355	78,625
Apr	25,311	10,147	3,147	4,320	777	552	12,058	20,981	8,967	852	464	87,576
May	24,343	9,752	2,902	4,100	740	476	10,027	20,561	18,697	1,858	517	93,973
Jun	24,503	10,069	3,095	4,324	641	401	9,686	21,037	19,265	834	640	94,495
Jul	23,634	9,906	2,725	4,365	845	434	10,123	12,438	17,896	558	497	83,422
Aug	24,827	11,690	2,702	4,369	702	556	10,064	20,313	18,871	528	386	95,008
Sep	23,672	11,997	2,363	4,542	1,071	558	9,252	17,225	19,141	592	493	90,906
Oct	24,971	11,510	1,962	4,492	682	443	8,722	20,618	18,995	803	529	93,727
Nov	20,519	8,888	1,142	3,063	552	445	6,717	15,841	11,234	497	155	69,053
Dec	18,041	8,903	530	3,304	3,137	358	5,517	13,278	17,024		3,499	73,591
YTD	23,268	10,594	2,645	4,136	800	458	10,240	18,505	12,610	969	669	84,893

Table 2.1.1-2M (Cont.)
Production of Condensate

Unit : Barrel/Day

Month	2009											Total
	Pailin	Erawan	Bannpot	Satun	Gomin	Phuhoorm	Funan & Jakrawan	Bongkot	Arthit	Trat	Others	
Jan	22,334	12,524	1,123	3,774	535	196	5,628	16,645	17,743	398	162	81,062
Feb	23,247	14,456	1,650	3,542	420	194	6,467	14,543	17,939	490	207	83,155
Mar	21,949	14,337	2,771	4,138	310	196	9,041	18,452	17,846	755	289	90,084
Apr	22,135	11,294	626	2,789	267	497	5,464	17,263	17,081	837	97	78,350
May	24,023	12,825	414	2,205	273	507	7,113	17,259	18,551	742	361	84,273
Jun	23,181	11,991	2,156	2,423	500	509	7,546	19,200	18,742	554	679	87,481
Jul	21,856	11,396	1,460	2,169	204	474	6,026	22,423	17,955	274	479	84,716
Aug	23,487	12,889	1,576	3,097	346	474	8,045	19,023	16,849	299	563	86,648
Sep	23,406	11,654	2,434	3,072	181	519	5,874	20,806	13,373	979	490	82,788
Oct	22,315	12,878	2,786	3,194	441	520	8,573	14,147	17,551	1,074	609	84,088
Nov	18,766	11,396	1,748	2,203	1,637	376	5,453	19,437	17,402	683	205	79,306
Dec	18,654	12,386	2,355	2,655	3,878	439	3,789	20,153	19,135	680	405	84,529
YTD	22,106	12,496	1,759	2,937	753	409	6,591	18,300	17,520	647	380	83,900

Source : Department of Mineral Fuels (DMF)
Compiled by : Energy Policy and Planning office (EPPO)

Table 2.1.2-1M
Import of Crude Oil Classified by Sources

Unit : Million Litres

2005													
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
Middle East	3,303	2,856	3,624	3,190	3,779	2,679	3,345	3,208	3,204	3,392	2,388	3,334	38,302
Far East	541	367	287	482	496	385	692	389	309	255	445	554	5,202
Others	315	315	348	171	250	1,002	322	649	413	292	147	306	4,529
Total	4,158	3,539	4,259	3,843	4,526	4,066	4,359	4,245	3,926	3,940	2,979	4,193	48,033
2006													
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
Middle East	3,126	2,609	3,593	3,481	3,581	3,271	3,109	3,984	3,073	3,335	2,543	3,208	38,913
Far East	553	349	188	324	481	310	398	298	438	391	348	557	4,633
Others	391	304	683	69	320	333	626	125	426	512	379	412	4,580
Total	4,070	3,262	4,464	3,874	4,382	3,913	4,133	4,408	3,937	4,238	3,270	4,176	48,125
2007													
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
Middle East	2,787	3,219	2,970	3,484	3,236	2,952	3,070	3,656	2,885	2,383	3,007	3,099	36,747
Far East	272	385	270	183	332	92	400	319	245	441	276	253	3,469
Others	449	723	441	549	429	520	621	739	418	873	257	436	6,456
Total	3,508	4,327	3,681	4,217	3,997	3,564	4,091	4,714	3,548	3,696	3,540	3,789	46,671
2008													
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
Middle East	3,633	3,183	3,913	2,957	3,684	3,010	2,982	3,637	2,730	3,745	2,298	3,373	39,145
Far East	284	352	324	559	432	239	129	178	100	51	98	384	3,128
Others	346	710	416	445	215	441	628	362	481	350	286	273	4,952
Total	4,263	4,245	4,653	3,960	4,330	3,690	3,739	4,176	3,311	4,146	2,682	4,030	47,225
2009													
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
Middle East	2,946	2,157	3,892	3,139	2,961	3,514	2,772	3,256	3,440	2,690	3,064	2,770	36,601
Far East	541	496	450	512	577	286	333	340	320	333	461	302	4,951
Others	239	228	462	349	433	424	581	138	500	864	513	337	5,068
Total	3,726	2,882	4,804	4,000	3,970	4,224	3,686	3,734	4,261	3,887	4,037	3,409	46,620

Source : Department of Energy Business (DOEB)
Compiled by : Energy Policy and Planning Office (EPPO)

Table 2.2-1M
Material Intake by Refinery

Unit : BBLD

2005									
Month	Thai Oil	Bangchak	ESSO	IRPC / TPI	RRC	SPRC	RPC	Total	
Jan	230,449	67,855	160,874	176,348	152,304	152,304	11,401	951,535	
Feb	159,524	44,459	154,974	172,711	149,475	149,475	11,690	842,309	
Mar	226,619	95,997	147,962	158,112	139,209	139,209	10,874	917,981	
Apr	238,420	80,193	149,259	184,191	144,874	144,874	10,794	952,605	
May	240,454	54,501	149,532	185,323	135,157	135,157	12,123	912,246	
Jun	239,603	60,094	164,117	184,585	142,495	142,494	10,925	944,312	
Jul	235,374	66,488	150,893	177,148	155,288	155,288	11,087	951,566	
Aug	223,660	56,439	152,056	184,348	143,817	143,818	10,689	914,827	
Sep	234,987	51,851	145,394	170,043	154,492	154,492	12,982	924,241	
Oct	232,106	52,847	153,547	180,797	119,311	119,311	12,115	870,033	
Nov	223,048	51,802	154,712	188,169	89,578	89,578	13,143	810,031	
Dec	227,833	68,338	152,511	175,657	138,795	138,795	10,103	912,033	
YTD	226,465	62,738	152,965	178,124	138,709	138,709	11,487	909,198	
2006									
Month	Thai Oil	Bangchak	ESSO	IRPC / TPI	RRC	SPRC	RPC	Total	
Jan	229,901	66,805	148,724	183,744	152,625	152,625	11,902	946,326	
Feb	233,763	64,191	145,742	152,774	154,418	154,418	12,209	917,515	
Mar	222,221	66,903	153,290	185,718	141,353	141,353	4,457	915,294	
Apr	238,305	58,768	146,667	180,233	159,844	159,844	13,050	956,712	
May	235,436	62,128	144,497	176,295	150,932	150,932	15,203	935,423	
Jun	235,321	46,096	150,033	177,565	154,434	154,434	14,607	932,489	
Jul	237,924	68,746	153,560	180,548	156,086	156,086	13,361	966,311	
Aug	233,295	66,662	147,565	186,790	151,134	151,134	10,190	946,771	
Sep	237,159	50,634	136,297	184,947	154,662	154,662	10,697	929,057	
Oct	186,560	49,600	160,874	192,955	157,929	157,929	11,450	917,296	
Nov	229,045	41,679	161,009	81,708	155,184	155,184	12,673	836,482	
Dec	234,136	42,319	156,851	146,396	156,037	156,036	12,224	904,000	
YTD	229,326	57,070	150,485	169,417	153,689	153,689	11,822	925,498	

Oil

Table 2.2-1M (Cont.)
Material Intake by Refinery

Unit : BBLD

2007									
Month	Thai Oil	Bangchak	ESSO	IRPC / TPI	RRC	SPRC	RPC	Total	
Jan	222,520	45,625	146,855	183,739	155,426	155,426	10,963	920,554	
Feb	236,333	51,662	146,289	191,418	138,577	138,577	13,292	916,148	
Mar	237,183	58,205	154,223	182,717	105,952	105,952	13,450	857,682	
Apr	235,742	71,416	151,486	181,928	152,024	152,024	14,348	958,968	
May	235,344	71,496	153,271	194,616	136,520	136,520	13,362	941,128	
Jun	237,551	77,073	119,756	192,295	149,687	149,687	12,790	938,838	
Jul	202,415	69,552	144,399	192,036	153,595	153,595	13,168	928,760	
Aug	219,338	69,769	156,598	191,481	157,608	157,608	10,362	962,764	
Sep	230,679	73,660	158,466	177,996	149,368	149,368	14,470	954,007	
Oct	127,032	64,508	151,925	186,831	156,697	156,696	13,266	856,957	
Nov	104,995	65,807	151,131	196,353	157,259	157,259	12,931	845,735	
Dec	219,551	70,580	144,208	200,101	160,332	160,332	13,426	967,594	
YTD	208,907	65,827	148,266	189,299	147,782	147,702	12,976	920,759	
2008									
Month	Thai Oil	Bangchak	ESSO	IRPC / TPI	RRC	SPRC	RPC	Total	
Jan	260,756	71,522	137,983	185,440	156,402	156,402	11,552	980,057	
Feb	268,849	18,605	149,647	182,049	157,646	157,646	14,116	948,561	
Mar	281,982	89,858	141,679	176,493	145,208	145,208	13,578	994,005	
Apr	280,288	87,298	156,031	181,478	156,300	156,300	11,453	1,029,148	
May	283,271	79,318	150,738	178,172	153,212	153,212	11,521	1,009,444	
Jun	284,910	83,067	155,529	187,990	74,616	74,616	12,846	873,575	
Jul	281,622	77,985	123,405	176,086	143,180	143,180	12,787	958,245	
Aug	255,302	71,354	136,150	144,900	123,112	123,112	5,318	859,247	
Sep	221,823	72,068	133,765	163,538	100,524	100,524	12,344	804,585	
Oct	291,546	70,313	128,801	167,601	136,823	136,823	13,417	945,324	
Nov	288,065	80,986	141,485	159,038	62,392	62,392	11,182	805,539	
Dec	272,620	77,511	138,624	159,495	118,256	118,256	8,092	892,855	
YTD	272,648	73,540	141,046	171,788	127,455	127,455	11,498	925,432	

**Table 2.2-1M (Cont.)
Material Intake by Refinery**

Unit : BBLD

Month	2009										Total		
	Thai Oil	Bangchak	ESSO	IRPC / TPI	RRC	SPRC	RPC	ESPO	IRPC / TPI	RRC			
Jan	275,497	79,034	140,722	102,001	135,780	153,916	8,742	140,722	102,001	135,780	153,916	8,742	895,692
Feb	281,149	96,003	141,430	60,011	144,470	148,293	9,964	141,430	60,011	144,470	148,293	9,964	881,320
Mar	280,573	89,528	152,348	158,352	150,411	153,092	14,176	152,348	158,352	150,411	153,092	14,176	998,481
Apr	271,846	95,418	141,552	149,691	140,085	156,241	10,023	141,552	149,691	140,085	156,241	10,023	964,856
May	250,887	97,194	143,181	148,486	134,662	156,996	9,819	143,181	148,486	134,662	156,996	9,819	941,225
Jun	275,051	81,742	145,380	152,604	134,312	154,045	7,233	145,380	152,604	134,312	154,045	7,233	950,366
Jul	277,059	90,021	140,477	145,168	122,464	166,812	11,376	140,477	145,168	122,464	166,812	11,376	953,378
Aug	270,623	89,092	104,860	145,481	149,849	140,002	10,136	104,860	145,481	149,849	140,002	10,136	910,044
Sep	267,370	86,134	135,964	168,653	146,271	158,899	10,957	135,964	168,653	146,271	158,899	10,957	974,247
Oct	268,514	75,325	130,423	144,235	151,103	150,531	11,606	130,423	144,235	151,103	150,531	11,606	931,737
Nov	243,282	86,156	133,719	161,464	151,249	133,496	8,700	133,719	161,464	151,249	133,496	8,700	918,066
Dec	257,041	56,881	140,605	143,971	151,178	157,199	9,925	140,605	143,971	151,178	157,199	9,925	916,800
YTD	268,177	85,098	137,506	140,469	142,634	152,514	10,234	137,506	140,469	142,634	152,514	10,234	936,633

Remark : Since mid of December 2007 RRC merged with ATC to form PTAR.

Source : Department of Energy Business (DOEB)

Compiled by : Energy Policy and Planning Office (EPPO)

Table 2.3.1-1M
Production of Petroleum Products

Month	2005										
	Gasoline		Kerosene		Diesel		J.P.	Fuel Oil	LPG	Total	
	Total	Regular	Premium	Total	HSD	LSD					
Jan	786.9	437.2	349.6	91.1	1,766.4	1,763.3	3.1	432.9	562.0	637.3	4,276.5
Feb	648.2	395.9	252.3	83.6	1,479.3	1,472.0	7.3	296.8	468.6	523.2	3,499.6
Mar	779.4	450.2	329.2	74.5	1,799.5	1,797.6	1.9	376.0	555.4	586.3	4,171.2
Apr	812.2	441.8	370.4	90.7	1,820.6	1,807.7	13.0	366.9	504.9	563.1	4,158.2
May	782.0	410.4	371.6	109.8	1,850.9	1,846.3	4.7	377.9	525.1	587.4	4,233.1
Jun	754.2	449.0	305.2	98.7	1,885.2	1,874.8	10.4	369.1	464.0	587.9	4,159.0
Jul	812.8	441.4	371.4	106.9	1,967.1	1,958.9	8.2	372.9	536.6	651.1	4,447.4
Aug	811.5	423.4	388.0	106.4	1,679.5	1,676.5	3.0	512.4	569.7	639.7	4,319.2
Sep	748.0	414.0	334.0	101.0	1,679.9	1,669.5	10.4	515.6	549.9	584.4	4,178.7
Oct	771.4	421.7	349.6	5.1	1,566.8	1,559.3	7.6	452.7	497.9	609.9	3,903.8
Nov	767.8	393.0	374.8	61.2	1,549.9	1,543.4	6.5	342.5	368.8	585.0	3,675.2
Dec	758.3	397.9	360.4	87.6	1,751.9	1,743.8	8.1	421.0	556.3	637.4	4,212.5
YTD	9,232.7	5,076.1	4,156.6	1,016.7	20,797.2	20,713.0	84.2	4,836.6	6,159.2	7,192.8	49,235.0

Month	2006										
	Gasoline		Kerosene		Diesel		J.P.	Fuel Oil	LPG	Total	
	Total	Regular	Premium	Total	HSD	LSD					
Jan	788.1	422.1	366.0	89.3	1,713.2	1,711.6	1.6	542.6	539.5	675.3	4,347.9
Feb	718.5	401.5	317.0	88.7	1,631.2	1,628.7	2.5	455.9	548.0	558.3	4,000.5
Mar	740.6	381.7	358.9	94.6	1,738.0	1,733.0	5.0	445.5	559.6	552.7	4,131.0
Apr	780.7	402.4	378.3	84.2	1,869.2	1,860.9	8.3	394.1	529.5	582.3	4,239.9
May	784.0	420.6	363.5	78.5	1,818.0	1,808.6	9.5	380.0	543.3	576.9	4,180.7
Jun	772.6	454.8	317.8	88.7	1,812.2	1,805.0	7.2	388.4	544.9	583.7	4,190.5
Jul	786.8	433.4	353.4	93.3	1,883.6	1,877.5	6.2	491.3	586.4	603.2	4,444.6
Aug	759.7	426.5	333.2	118.6	1,757.4	1,755.2	2.2	500.4	564.0	638.0	4,338.0
Sep	760.4	427.1	333.3	92.4	1,671.5	1,667.8	3.6	516.0	477.5	643.4	4,161.1
Oct	736.5	423.1	313.4	91.1	1,772.5	1,769.1	3.4	460.0	438.1	620.4	4,118.5
Nov	708.4	413.7	294.7	50.5	1,668.3	1,667.1	1.2	499.7	499.6	577.1	4,003.5
Dec	753.6	427.9	325.7	71.2	1,814.2	1,811.0	3.1	529.1	477.8	618.8	4,264.6
YTD	9,089.9	5,034.7	4,055.2	1,041.1	21,149.4	21,095.3	54.0	5,602.9	6,308.1	7,230.0	50,421.2

Table 2.3.1-1M (Cont.)
Production of Petroleum Products

Unit : Million Litres

Month	2007										
	Gasoline		Kerosene		Diesel		J.P.	Fuel Oil	LPG	Total	
	Total	Regular	Premium	Total	HSD	LSD					
Jan	782.8	445.0	337.7	5.6	1,800.1	1,797.1	3.0	545.7	480.4	690.2	4,304.7
Feb	687.8	383.7	304.2	12.1	1,649.6	1,645.5	4.1	482.5	414.8	585.6	3,832.4
Mar	701.4	399.4	302.0	5.7	1,713.4	1,711.1	2.3	429.1	501.5	574.5	3,925.5
Apr	770.7	428.8	341.9	11.8	1,864.6	1,862.6	2.0	441.2	556.4	615.7	4,260.3
May	716.2	397.5	318.7	6.1	1,831.9	1,828.5	3.4	513.8	612.3	643.6	4,324.0
Jun	699.6	375.0	324.6	16.8	1,847.7	1,846.3	1.4	401.9	542.0	647.1	4,155.1
Jul	764.3	485.9	278.4	16.9	1,906.1	1,904.0	2.1	404.2	482.9	643.9	4,218.3
Aug	741.5	418.7	322.8	8.1	1,963.2	1,961.2	2.0	454.9	512.4	684.5	4,364.6
Sep	774.6	450.6	324.0	19.4	1,904.8	1,897.8	7.0	461.6	558.5	659.5	4,378.4
Oct	703.2	468.4	234.8	4.5	1,846.2	1,844.4	1.8	373.3	562.5	676.6	4,166.2
Nov	626.3	417.6	208.7	3.2	1,672.4	1,670.1	2.3	330.9	594.8	643.0	3,870.6
Dec	734.5	397.5	337.0	13.2	1,994.7	1,994.7		483.4	633.4	688.1	4,547.3
YTD	8,702.9	5,068.1	3,634.8	123.4	21,994.9	21,963.5	31.4	5,322.6	6,452.0	7,752.2	50,348.0

Month	2008										
	Gasoline		Kerosene		Diesel		J.P.	Fuel Oil	LPG	Total	
	Total	Regular	Premium	Total	HSD	LSD					
Jan	781.5	415.3	366.2	7.4	1,828.4	1,828.0	0.5	604.0	590.6	679.3	4,491.3
Feb	730.5	406.1	324.4	21.5	1,608.0	1,604.8	3.2	524.1	498.5	659.3	4,041.8
Mar	769.7	451.9	317.8	16.2	1,950.5	1,950.5		536.6	574.5	691.9	4,539.4
Apr	776.1	439.4	336.7	4.6	1,932.0	1,932.0		577.5	632.1	650.4	4,572.7
May	739.0	440.2	298.7	60.6	1,940.4	1,940.4		525.6	574.8	746.1	4,586.3
Jun	700.6	383.1	317.5	9.5	1,637.6	1,637.5		381.4	522.0	714.8	3,965.7
Jul	663.9	405.1	258.8	4.0	1,759.9	1,759.9		527.2	577.3	837.0	4,369.3
Aug	704.5	453.2	251.3	53.3	1,590.3	1,590.3		443.6	612.6	809.4	4,213.6
Sep	603.8	351.1	252.7	5.2	1,474.9	1,474.9		431.8	503.2	754.2	3,772.9
Oct	630.8	371.7	259.0	1.2	1,769.2	1,769.2		475.9	716.1	841.2	4,434.4
Nov	613.9	350.8	263.2	10.9	1,494.9	1,494.9		499.3	455.7	611.4	3,686.1
Dec	734.7	432.3	302.5	0.5	1,783.0	1,783.0		474.8	616.1	565.4	4,174.3
YTD	8,449.0	4,900.1	3,548.9	194.9	20,769.0	20,765.4	3.7	6,001.9	6,873.3	8,560.3	50,848.3

Oil

Table 2.3.1-1M (Cont.)
Production of Petroleum Products

Unit : Million Litres

Month	2009											Total
	Gasoline		Kerosene		Diesel		J.P.	Fuel Oil	LPG	LSD	Total	
	Total	Regular	Premium	Total	HSD	HSD						
Jan	781.8	388.3	393.5	3.8	1,806.1	1,806.1	486.1	608.8	664.3		4,350.9	
Feb	641.2	366.9	274.3	3.3	1,503.3	1,503.3	454.8	588.1	592.4		3,783.1	
Mar	763.3	447.3	316.0	7.2	1,990.1	1,990.1	542.3	680.4	724.5		4,707.8	
Apr	731.6	446.4	285.2	7.6	1,928.0	1,928.0	428.9	541.0	699.4		4,336.5	
May	785.2	492.0	293.3	4.8	2,012.0	2,012.0	500.2	583.8	786.5		4,672.4	
Jun	758.2	489.2	269.0	7.9	1,842.9	1,842.9	455.5	591.9	745.1		4,401.5	
Jul	765.7	440.8	325.0	13.1	1,940.1	1,940.1	569.4	593.1	823.8		4,705.2	
Aug	743.4	426.0	317.4	3.0	1,865.5	1,865.5	523.1	565.0	827.1		4,527.1	
Sep	716.3	420.7	295.6	8.4	1,967.0	1,967.0	447.5	579.1	787.8		4,506.1	
Oct	740.5	433.3	307.2	8.5	1,944.2	1,944.2	581.8	493.6	821.3		4,589.9	
Nov	685.5	384.8	300.6	16.5	1,804.4	1,804.4	506.0	517.5	813.2		4,343.1	
Dec	739.4	454.7	284.7	8.7	1,885.4	1,885.4	479.4	541.9	861.2		4,515.9	
YTD	8,852.1	5,190.3	3,661.8	92.9	22,489.0	22,489.0	5,975.0	6,884.2	9,146.7		53,439.8	

Source : Department of Energy Business
Compiled by : Energy Policy and Planning Office (EPPO)

Table 2.3.1-2M
Production of Petroleum Products

Unit : Barrels/Day

Month	Gasoline				Kerosene		Diesel		J.P.	Fuel Oil	LPG	Total
	Total	Regular	Premium	Total	HSD	LSD	Total					
							HSD	LSD				
Jan	159,657.0	88,705.1	70,931.6	18,483.6	357,762.4	628.9	87,832.6	114,026.2	129,304.1	867,693.7		
Feb	145,606.6	88,931.9	56,674.7	18,779.2	330,658.7	1,639.8	66,670.8	105,262.6	117,527.6	786,145.2		
Mar	158,135.3	91,342.7	66,792.5	15,115.5	364,721.6	385.4	76,288.0	112,687.1	118,956.5	846,313.4		
Apr	170,283.2	92,626.3	77,656.8	19,015.8	378,996.5	2,725.5	76,923.0	105,855.7	118,057.7	871,813.9		
May	158,662.8	83,267.5	75,395.2	22,277.7	374,602.5	953.6	76,673.5	106,539.4	119,179.7	858,878.4		
Jun	158,123.1	94,135.8	63,987.2	20,693.1	393,064.5	2,180.4	77,384.3	97,280.7	123,257.2	871,969.4		
Jul	164,911.9	89,557.2	75,354.7	21,689.3	397,448.4	1,663.7	75,659.0	108,872.7	132,104.0	902,357.5		
Aug	164,648.2	85,905.1	78,722.7	21,587.8	340,151.2	608.6	103,962.7	115,588.5	129,791.0	876,349.6		
Sep	156,823.2	86,797.9	70,025.3	21,175.3	350,022.0	2,180.4	108,099.0	115,290.2	122,523.4	876,098.4		
Oct	156,512.1	85,560.2	70,931.6	1,034.7	316,372.0	1,541.9	91,849.9	101,020.7	123,744.8	792,068.7		
Nov	160,974.4	82,395.1	78,579.3	12,830.9	323,584.2	1,362.7	71,807.4	77,321.4	122,649.2	770,543.9		
Dec	153,854.2	80,731.3	73,122.8	17,773.4	353,805.9	1,643.4	85,418.2	112,869.7	129,324.4	854,697.6		
YTD	159,098.4	87,471.6	71,626.8	17,519.8	356,927.7	1,450.9	83,344.6	106,135.7	123,946.7	848,421.8		

Month	Gasoline				Kerosene		Diesel		J.P.	Fuel Oil	LPG	Total
	Total	Regular	Premium	Total	HSD	LSD	Total					
							HSD	LSD				
Jan	159,900.5	85,641.4	74,259.0	18,118.4	347,272.8	324.6	110,090.1	109,461.1	137,014.0	882,165.8		
Feb	161,398.2	90,189.8	71,208.4	19,924.8	365,858.5	561.5	102,409.8	123,098.4	125,412.2	898,646.4		
Mar	150,263.0	77,444.5	72,818.5	19,193.7	351,614.7	1,014.4	90,389.1	113,539.2	112,139.3	838,162.7		
Apr	163,679.0	84,365.8	79,313.1	17,653.1	390,150.3	1,740.1	82,625.7	111,013.2	122,083.1	888,930.2		
May	159,068.6	85,337.0	73,751.8	15,927.1	366,953.4	1,927.4	77,099.5	110,232.1	117,049.3	848,255.2		
Jun	161,980.8	95,351.9	66,628.9	18,596.5	378,430.5	1,509.5	81,430.6	114,241.9	122,376.6	878,579.3		
Jul	159,636.7	87,934.1	71,702.6	18,929.9	380,932.8	1,257.9	99,681.6	118,976.8	122,385.4	901,784.8		
Aug	154,138.3	86,534.1	67,604.1	24,063.1	356,565.3	446.3	101,527.9	114,432.0	129,446.1	880,164.3		
Sep	159,423.0	89,544.4	69,878.6	19,372.2	349,665.5	754.7	108,182.9	100,111.1	134,893.1	872,407.9		
Oct	149,431.1	85,844.3	63,586.8	18,483.6	358,939.1	689.8	93,331.0	88,887.7	125,875.2	835,626.0		
Nov	148,520.8	86,735.0	61,785.8	10,587.6	349,518.8	251.5	104,765.4	104,744.5	120,992.9	839,368.5		
Dec	152,900.6	86,818.2	66,082.4	14,446.0	367,440.4	628.9	107,351.0	96,942.5	125,550.6	865,269.6		
YTD	156,637.7	86,758.2	69,879.4	17,940.3	363,515.5	930.5	96,549.5	108,701.5	124,587.8	868,862.9		



Table 2.3.1-2M (Cont.)
Production of Petroleum Products

Unit : Barrels/Day

Month	Gasoline			Kerosene		Diesel			J.P.	Fuel Oil	LPG	Total
	Total	Regular	Premium	Total	HSD	HSD	LSD					
								Total				
Jan	158,825.1	90,287.6	68,517.1	1,136.2	365,228.8	364,620.2	608.6	110,719.0	97,470.1	140,037.2	873,410.6	
Feb	154,502.0	86,191.4	68,333.1	2,718.0	370,553.4	369,632.4	920.9	108,385.0	93,177.4	131,544.6	860,895.5	
Mar	142,309.6	81,035.7	61,273.8	1,156.4	347,638.0	347,171.3	466.6	87,061.6	101,751.1	116,562.4	796,473.7	
Apr	161,582.4	89,900.8	71,681.6	2,473.9	390,926.0	390,506.7	419.3	92,500.5	116,653.0	129,085.6	893,214.6	
May	145,312.4	80,650.2	64,662.2	1,237.6	371,680.9	370,991.0	689.8	104,246.7	124,231.7	130,582.3	877,319.6	
Jun	146,675.8	78,621.2	68,054.5	3,522.2	387,382.8	387,089.3	293.5	84,261.0	113,633.9	135,668.9	871,145.2	
Jul	155,071.6	98,586.0	56,485.5	3,428.9	386,735.6	386,309.5	426.0	82,009.6	97,977.3	130,643.2	855,869.8	
Aug	150,445.6	84,951.5	65,494.0	1,643.4	398,320.8	397,915.0	405.7	92,296.3	103,962.7	138,880.7	885,557.7	
Sep	162,400.1	94,471.3	67,928.8	4,067.3	399,354.2	397,886.6	1,467.5	96,777.5	117,093.3	138,268.6	917,964.4	
Oct	142,674.8	95,035.3	47,639.4	913.0	374,582.2	374,217.0	365.2	75,740.2	114,127.6	137,277.8	845,308.2	
Nov	131,308.0	87,552.6	43,755.3	670.9	350,630.0	350,147.8	482.2	69,375.4	124,703.8	134,809.3	811,518.1	
Dec	149,025.4	80,650.2	68,375.1	2,678.1	404,712.0	404,712.0		98,078.7	128,512.8	139,611.1	922,635.2	
YTD	149,968.9	87,333.8	62,635.1	2,126.4	379,017.5	378,476.4	541.0	91,719.3	111,181.2	133,586.4	867,600.4	

Month	Gasoline			Kerosene		Diesel			J.P.	Fuel Oil	LPG	Total
	Total	Regular	Premium	Total	HSD	HSD	LSD					
								Total				
Jan	158,561.4	84,261.7	74,299.6	1,501.4	370,970.7	370,889.6	101.4	122,547.7	119,829.0	137,825.6	911,258.4	
Feb	164,093.8	91,223.1	72,870.7	4,829.5	361,208.7	360,489.8	718.8	117,729.7	111,979.1	148,100.0	907,920.8	
Mar	156,167.2	91,687.6	64,479.6	3,286.8	395,744.1	395,744.1		108,872.7	116,562.4	140,382.1	921,034.3	
Apr	162,714.6	92,123.1	70,591.4	964.4	405,056.9	405,056.9		121,076.7	132,524.0	136,360.7	958,700.4	
May	149,938.4	89,313.7	60,604.3	12,295.3	393,694.8	393,694.8		106,640.9	116,623.2	151,378.9	930,550.5	
Jun	146,885.5	80,319.5	66,566.0	1,991.7	343,333.9	343,312.9		79,963.1	109,440.8	149,862.6	831,456.5	
Jul	134,701.1	82,192.2	52,508.8	811.5	357,072.5	357,072.5		106,965.5	117,130.5	169,822.0	886,518.9	
Aug	142,938.5	91,951.4	50,987.1	10,814.2	322,661.8	322,661.8		90,003.6	124,292.6	164,222.1	854,915.1	
Sep	126,590.7	73,610.4	52,980.2	1,090.2	309,222.8	309,222.8		90,529.8	105,499.2	158,123.1	791,028.2	
Oct	127,985.3	75,415.5	52,549.4	243.4	358,959.4	358,959.4		96,557.0	145,292.1	170,674.1	899,714.5	
Nov	128,708.3	73,547.6	55,181.6	2,285.2	313,415.9	313,415.9		104,681.6	95,540.6	128,184.1	772,821.5	
Dec	149,065.9	87,710.9	61,375.3	101.4	361,759.4	361,759.4		96,333.9	125,002.7	114,716.0	846,952.6	
YTD	145,195.9	84,208.1	60,987.7	3,349.3	356,914.9	356,853.0	63.5	103,142.5	118,117.5	147,108.6	873,828.6	

Table 2.3.1-2M (Cont.)
Production of Petroleum Products

Unit : Barrels/Day

Month	2009										Total
	Gasoline			Kerosene		Diesel		J.P.	Fuel Oil	LPG	
	Total	Regular	Premium	Total	HSD	LSD					
Jan	158,622.2	78,783.6	79,838.6	770.9	366,446.2	366,446.2	98,626.6	123,521.6	134,782.2	882,775.8	
Feb	144,034.2	82,417.5	61,616.6	741.2	337,689.7	337,689.7	102,162.7	132,106.2	133,072.1	849,811.9	
Mar	154,868.7	90,754.3	64,114.3	1,460.8	403,778.6	403,778.6	110,029.2	138,048.8	146,996.4	955,188.1	
Apr	153,384.9	93,590.7	59,794.1	1,593.3	404,218.2	404,218.2	89,921.7	113,424.3	146,633.9	909,188.9	
May	159,312.1	99,823.6	59,508.7	973.8	408,222.0	408,222.0	101,487.4	118,449.3	159,575.8	948,008.3	
Jun	158,961.7	102,564.1	56,397.6	1,656.2	386,376.5	386,376.5	95,498.6	124,095.8	156,215.2	922,811.0	
Jul	155,355.6	89,435.5	65,940.4	2,657.9	393,634.0	393,634.0	115,527.6	120,336.2	167,143.8	954,665.7	
Aug	150,831.1	86,432.7	64,398.4	608.6	378,498.1	378,498.1	106,133.6	114,634.9	167,813.3	918,520.6	
Sep	150,177.1	88,202.6	61,974.5	1,761.1	412,394.9	412,394.9	93,821.4	121,412.2	165,167.6	944,735.1	
Oct	150,242.7	87,913.8	62,328.9	1,724.5	394,465.8	394,465.8	118,043.5	100,148.3	166,636.5	931,264.3	
Nov	143,719.7	80,675.9	63,022.8	3,459.3	378,304.7	378,304.7	106,086.3	108,497.3	170,492.9	910,562.8	
Dec	150,019.5	92,255.7	57,763.8	1,765.1	382,535.7	382,535.7	97,267.2	109,948.0	174,732.0	916,259.9	
YTD	152,539.9	89,439.5	63,100.3	1,600.8	387,531.9	387,531.9	102,961.5	118,628.9	157,616.5	920,879.0	

Source : Department of Energy Business
Compiled by : Energy Policy and Planning Office (EPPO)



Table 2.3.2-1M
Sale of Petroleum Products

Unit : Million Litres

Month	Gasoline				Kerosene		Diesel		J.P.	Fuel Oil	LPG*	Total
	Total	Regular	Premium	Total	HSD	LSD	Diesel					
							HSD	LSD				
Jan	611.7	373.3	238.3	1,730.9	1,724.5	6.4	375.4	421.9	355.4	3,497.1		
Feb	614.8	374.1	240.7	1,709.7	1,703.1	6.6	336.7	469.8	325.6	3,458.3		
Mar	598.7	362.0	236.7	1,837.0	1,828.4	8.6	362.7	577.8	368.7	3,746.8		
Apr	613.9	369.4	244.4	1,716.8	1,711.1	5.8	353.2	561.4	336.7	3,583.6		
May	605.6	368.3	237.3	1,831.4	1,824.1	7.3	350.2	588.2	351.2	3,728.3		
Jun	641.0	384.1	256.8	1,707.0	1,699.1	7.9	330.1	520.8	362.2	3,562.8		
Jul	576.4	349.3	227.1	1,467.3	1,460.1	7.2	358.1	556.8	369.0	3,329.3		
Aug	627.9	377.3	250.6	1,567.4	1,560.1	7.4	360.1	502.6	385.2	3,445.0		
Sep	577.6	345.6	232.0	1,417.6	1,410.4	7.2	348.9	564.5	363.2	3,273.4		
Oct	567.3	339.3	228.0	1,450.8	1,445.5	5.3	356.0	573.4	374.6	3,323.7		
Nov	588.4	350.4	238.0	1,507.8	1,504.4	3.4	369.4	428.5	373.0	3,268.8		
Dec	624.9	368.8	256.1	1,650.0	1,645.9	4.1	391.9	439.0	399.2	3,506.7		
Total	7,248.1	4,362.1	2,886.0	19,593.8	19,516.6	77.2	4,292.7	6,204.8	4,363.9	41,724.5		

Month	Gasoline				Kerosene		Diesel		J.P.	Fuel Oil	LPG*	Total
	Total	Regular	Premium	Total	HSD	LSD	Diesel					
							HSD	LSD				
Jan	603.9	364.4	239.5	1,617.2	1,612.3	4.9	410.8	495.3	386.3	3,515.1		
Feb	545.2	331.1	214.1	1,530.4	1,526.1	4.3	369.0	618.3	362.4	3,426.8		
Mar	623.6	378.3	245.2	1,732.5	1,726.2	6.3	395.8	612.0	400.3	3,766.0		
Apr	608.8	371.3	237.5	1,569.7	1,561.5	8.2	372.1	547.3	371.8	3,471.2		
May	607.5	380.2	227.3	1,629.7	1,625.2	4.5	364.8	538.3	411.2	3,553.0		
Jun	591.5	374.9	216.6	1,477.7	1,474.1	3.6	347.4	627.2	406.0	3,451.4		
Jul	596.2	379.1	217.1	1,441.2	1,435.5	5.7	361.5	550.2	443.3	3,393.9		
Aug	592.2	381.2	211.0	1,438.6	1,433.6	5.0	362.2	482.7	468.8	3,346.1		
Sep	583.3	380.1	203.2	1,372.2	1,368.7	3.6	353.0	386.2	455.8	3,152.2		
Oct	607.3	397.8	209.5	1,432.7	1,429.5	3.2	372.5	338.8	463.9	3,216.8		
Nov	620.1	406.6	213.4	1,536.2	1,531.3	4.8	389.2	321.5	443.2	3,311.7		
Dec	635.6	413.7	221.8	1,592.9	1,587.8	5.0	420.2	333.6	461.3	3,445.2		
Total	7,215.1	4,558.9	2,656.3	18,371.0	18,311.8	59.2	4,518.5	5,851.3	5,074.4	41,050.0		

Table 2.3.2-1M (Cont.)
Sale of Petroleum Products

Unit : Million Litres

Month	2007									
	Gasoline		Kerosene		Diesel		J.P.	Fuel Oil	LPG*	Total
	Total	Regular	Premium	Total	HSD	LSD				
Jan	612.9	403.3	209.6	1.5	1,640.2	4.5	441.4	320.3	466.8	3,487.6
Feb	572.9	372.9	199.9	1.4	1,501.4	3.7	414.4	339.4	430.5	3,260.0
Mar	634.0	417.5	216.5	1.7	1,718.7	4.0	428.6	386.2	471.2	3,640.3
Apr	613.6	402.7	210.9	1.3	1,573.5	3.0	405.5	376.1	441.0	3,411.0
May	604.7	395.5	209.1	1.5	1,562.3	1.9	413.0	350.7	471.4	3,403.6
Jun	618.1	402.7	215.5	1.8	1,574.7	1.7	376.3	356.5	475.0	3,402.4
Jul	617.7	400.3	217.4	1.5	1,498.4	2.4	395.9	297.9	485.8	3,297.1
Aug	638.0	411.7	226.3	1.4	1,555.3	1.9	411.1	309.7	513.6	3,429.2
Sep	593.7	374.4	219.2	1.6	1,436.6	2.9	386.4	388.6	494.9	3,301.8
Oct	620.4	387.4	233.0	1.8	1,499.5	3.0	400.3	434.4	518.6	3,474.9
Nov	589.3	362.9	226.3	1.5	1,533.8	2.2	420.1	328.2	523.6	3,396.5
Dec	621.5	380.1	241.4	1.3	1,610.8	1.4	438.7	333.4	519.7	3,525.4
Total	7,336.8	4,711.6	2,625.2	18.2	18,709.7	32.8	4,931.8	4,221.5	5,812.4	41,030.4

Month	2008									
	Gasoline		Kerosene		Diesel		J.P.	Fuel Oil	LPG*	Total
	Total	Regular	Premium	Total	HSD	LSD				
Jan	602.4	370.3	232.1	1.6	1,629.1	1.4	456.8	304.5	545.2	3,539.6
Feb	578.7	353.9	224.7	1.4	1,521.6	2.2	440.9	273.1	516.5	3,332.1
Mar	603.7	373.8	229.9	1.4	1,696.2	1.9	433.0	358.8	547.6	3,640.7
Apr	603.2	374.3	228.9	1.5	1,613.1	1.3	410.1	439.7	525.1	3,592.8
May	578.8	362.5	216.3	1.5	1,548.8	1.9	397.1	289.5	571.3	3,387.0
Jun	558.7	354.3	204.5	1.4	1,361.7	0.6	377.5	231.5	557.3	3,088.2
Jul	558.5	350.5	208.0	1.2	1,246.1	0.1	371.5	246.6	620.2	3,044.1
Aug	588.3	355.0	233.3	1.2	1,325.3	1,325.3	369.1	257.5	609.0	3,150.3
Sep	568.1	334.1	234.0	1.2	1,276.2	1,276.2	336.2	234.4	596.2	3,012.3
Oct	599.9	350.7	249.2	1.1	1,394.8	1,394.8	387.0	226.7	619.1	3,228.6
Nov	598.0	343.7	254.3	1.0	1,402.9	1,402.9	335.6	203.3	566.5	3,107.2
Dec	682.3	388.4	293.9	1.1	1,627.1	1,627.1	321.6	221.7	554.3	3,408.0
Total	7,120.6	4,311.4	2,809.2	15.7	17,643.0	9.4	4,636.5	3,287.3	6,828.4	39,531.4

Oil

Table 2.3.2-1M (Cont.)
Sale of Petroleum Products

Unit : Million Litres

Month	2009										Total
	Gasoline		Kerosene		Diesel		J.P.	Fuel Oil	LPG*	Total	
	Total	Regular	Premium	Total	HSD	LSD					
Jan	665.2	378.3	286.9	1.0	1,718.1	1,718.1	396.2	226.4	557.6	3,564.5	
Feb	588.5	333.5	255.0	1.4	1,439.3	1,439.3	364.7	212.2	488.8	3,094.8	
Mar	662.0	373.0	289.0	1.7	1,627.1	1,627.1	404.7	214.3	558.9	3,468.6	
Apr	634.5	357.3	277.1	1.2	1,587.3	1,587.3	344.5	195.0	531.2	3,293.7	
May	652.0	367.9	284.1	1.3	1,660.3	1,660.3	349.2	215.0	557.2	3,435.0	
Jun	607.9	345.4	262.5	1.4	1,459.2	1,459.2	322.0	216.7	562.8	3,170.0	
Jul	630.9	361.6	269.3	1.3	1,472.0	1,472.0	356.3	218.8	597.7	3,277.0	
Aug	616.4	352.9	263.5	1.4	1,446.3	1,446.3	362.9	224.4	610.6	3,262.0	
Sep	600.1	346.3	253.8	1.7	1,394.4	1,394.4	346.5	230.5	587.6	3,160.7	
Oct	623.3	358.1	265.2	1.7	1,472.3	1,472.3	377.7	295.2	611.6	3,381.8	
Nov	587.1	339.2	248.0	1.6	1,473.9	1,473.9	390.4	222.7	600.1	3,275.8	
Dec	656.4	378.0	278.4	1.9	1,715.0	1,715.0	416.3	259.7	630.1	3,679.3	
Total	7,524.4	4,291.6	3,232.8	17.6	18,465.3	18,465.3	4,431.5	2,730.9	6,894.3	40,063.9	

Source : Department of Energy Business

Compiled by : Energy Policy and Planning Office (EPPO)

* Excluding LPG used as Feedstock in Petrochemical Industry

Table 2.3.2-2M
Sale of Petroleum Products

Unit : Barrels/Day

Month	2005										
	Gasoline			Kerosene		Diesel		J.P.	Fuel Oil	LPG*	Total
	Total	Regular	Premium	Total	HSD	LSD	Total				
Jan	124,110.0	75,740.2	48,349.5	385.4	349,890.1	1,298.5	76,166.2	85,600.8	72,108.4	709,555.8	
Feb	138,103.9	84,034.9	54,068.9	381.8	382,571.2	1,482.5	75,633.6	105,532.2	73,140.2	776,856.1	
Mar	121,472.4	73,447.5	48,024.9	405.7	370,970.7	1,744.8	73,589.5	117,231.9	74,806.8	760,219.7	
Apr	128,708.3	77,447.2	51,240.1	356.4	358,743.7	1,216.0	74,050.7	117,701.3	70,591.4	751,333.8	
May	122,872.4	74,725.7	48,146.6	344.9	370,098.3	1,481.1	71,053.3	119,342.0	71,256.2	756,460.2	
Jun	134,390.0	80,529.1	53,839.8	419.3	356,227.8	1,656.2	69,207.7	109,189.2	75,937.6	746,986.0	
Jul	116,947.9	70,870.7	46,077.1	365.2	296,245.0	1,460.8	72,656.2	112,971.1	74,867.7	675,512.2	
Aug	127,396.9	76,551.7	50,845.1	365.2	316,534.4	1,501.4	73,082.0	101,974.3	78,154.6	698,980.9	
Sep	121,097.7	72,457.3	48,640.3	356.4	295,699.9	1,509.5	73,149.2	118,351.2	76,147.3	686,302.2	
Oct	115,101.5	68,841.8	46,259.7	344.9	293,282.7	1,075.3	72,230.1	116,339.2	76,003.9	674,373.0	
Nov	123,362.0	73,463.7	49,898.3	356.4	315,407.6	712.8	77,447.2	89,837.9	78,201.9	685,327.3	
Dec	126,788.2	74,827.1	51,961.0	344.9	333,942.6	831.8	79,514.0	89,070.3	80,995.1	711,491.4	
YTD	124,899.7	75,167.9	49,731.7	367.0	336,311.3	1,330.3	73,972.0	106,921.5	75,199.0	718,999.6	

Month	2006										
	Gasoline			Kerosene		Diesel		J.P.	Fuel Oil	LPG*	Total
	Total	Regular	Premium	Total	HSD	LSD	Total				
Jan	122,527.4	73,934.4	48,593.0	324.6	327,125.4	994.1	83,348.7	100,493.2	78,377.8	713,205.4	
Feb	122,469.5	74,375.7	48,093.7	336.9	342,811.3	965.9	82,889.3	138,890.1	81,406.7	769,772.0	
Mar	126,524.4	76,754.6	49,749.5	365.2	350,235.0	1,278.2	80,305.3	124,170.9	81,218.3	764,105.3	
Apr	127,639.0	77,845.5	49,793.4	314.4	327,379.0	1,719.1	78,013.2	114,745.1	77,950.3	727,770.0	
May	123,257.9	77,140.1	46,117.7	324.6	329,742.7	913.0	74,015.6	109,217.6	83,429.8	720,897.6	
Jun	124,011.9	78,600.3	45,411.6	335.4	309,055.0	754.7	72,834.7	131,496.7	85,120.6	723,628.0	
Jul	120,965.2	76,916.9	44,048.2	344.9	291,253.8	1,156.4	73,346.0	111,632.0	89,942.7	688,611.9	
Aug	120,153.6	77,343.0	42,810.5	344.9	290,868.3	1,014.4	73,488.0	97,936.7	95,116.5	678,920.8	
Sep	122,292.8	79,690.5	42,602.2	356.4	286,957.2	754.7	74,008.8	80,969.4	95,561.5	660,885.1	
Oct	123,217.3	80,711.1	42,506.2	344.9	290,036.5	649.2	75,577.8	68,740.3	94,122.3	652,680.5	
Nov	130,008.1	85,246.4	44,740.7	335.4	321,047.4	1,006.3	81,598.4	67,404.6	92,919.8	694,335.8	
Dec	128,959.2	83,937.1	45,001.8	324.6	322,154.5	1,014.4	85,255.9	67,685.3	93,594.8	699,010.0	
YTD	124,331.0	78,559.2	45,773.5	339.4	315,550.1	1,020.1	77,863.0	100,829.9	87,442.3	707,376.9	

Oil

Table 2.3.2-2M (Cont.)
Sale of Petroleum Products

Unit : Barrels/Day

Month	2007				2008					
	Gasoline		Kerosene		Gasoline		Kerosene			
	Total	Regular	Premium	Total	Diesel	J.P.	Fuel Oil	LPG*		
Jan	124,353.5	81,827.0	42,526.5	304.3	332,786.1	913.0	89,557.2	64,986.8	94,710.7	707,613.9
Feb	128,691.8	83,765.3	44,903.9	314.4	337,262.9	831.1	93,087.6	76,240.1	96,704.1	732,304.2
Mar	128,634.5	84,708.1	43,926.4	344.9	348,713.3	811.5	86,960.2	78,357.5	95,603.4	738,611.5
Apr	128,645.4	84,428.7	44,216.6	272.5	329,894.9	628.9	85,015.8	78,851.9	92,458.6	715,144.6
May	122,689.8	80,244.4	42,425.0	304.3	316,980.7	385.4	83,795.0	71,154.8	95,644.0	690,583.3
Jun	129,588.8	84,428.7	45,181.0	377.3	330,146.5	356.4	78,893.8	74,742.6	99,586.9	713,355.1
Jul	125,327.4	81,218.3	44,109.0	304.3	304,015.8	486.9	80,325.6	60,442.0	98,565.7	668,980.1
Aug	129,446.1	83,531.3	45,914.8	284.0	315,560.5	385.4	83,409.5	62,836.1	104,206.1	695,768.9
Sep	124,473.2	78,495.5	45,956.7	335.4	301,192.9	608.0	81,011.3	81,472.6	103,759.1	692,253.0
Oct	125,875.2	78,601.0	47,274.2	365.2	304,239.0	608.6	81,218.3	88,137.0	105,220.6	705,037.7
Nov	123,550.7	76,084.4	47,445.3	314.4	321,571.5	461.2	88,076.8	68,809.3	109,776.2	712,111.7
Dec	126,098.4	77,119.8	48,978.5	263.7	326,821.1	284.0	89,009.4	67,644.7	105,443.8	715,298.2
YTD	126,428.2	81,190.5	45,237.6	313.6	322,406.7	565.2	84,985.0	72,745.1	100,159.6	707,038.8
Month	2008				2008					
	Gasoline		Kerosene		Gasoline		Kerosene			
	Total	Regular	Premium	Total	Diesel	J.P.	Fuel Oil	LPG*		
Jan	122,223.1	75,131.5	47,091.6	324.6	330,534.0	284.0	92,681.8	61,781.1	110,617.6	718,177.5
Feb	129,994.6	79,497.3	50,474.8	314.4	341,800.4	494.1	99,040.3	61,347.0	116,022.5	748,499.3
Mar	122,486.9	75,841.6	46,645.2	284.0	344,148.2	385.4	87,852.9	72,798.2	111,104.5	738,685.4
Apr	126,464.9	78,474.5	47,990.4	314.4	338,197.3	272.5	85,980.2	92,186.0	110,090.7	753,265.9
May	117,434.8	73,548.9	43,885.9	304.3	314,241.7	385.4	80,569.0	58,737.7	115,913.1	687,207.0
Jun	117,135.2	74,281.4	42,874.8	293.5	285,489.6	125.7	79,145.4	48,535.5	116,841.7	647,465.9
Jul	113,316.1	71,114.2	42,201.8	243.4	252,825.8	20.2	75,374.9	50,033.5	125,834.6	617,641.6
Aug	119,362.3	72,027.2	47,335.0	243.4	268,894.9	268.894.9	74,888.0	52,245.1	123,562.2	639,176.1
Sep	119,106.0	70,046.3	49,059.6	251.5	267,563.9	267.563.9	70,486.6	49,143.5	124,997.3	631,553.5
Oct	121,715.9	71,154.8	50,561.1	223.1	282,996.0	282.996.0	78,519.8	45,995.9	125,611.4	655,068.5
Nov	125,374.7	72,059.0	53,315.7	209.6	294,127.5	294.127.5	70,360.8	42,623.2	118,770.5	651,465.8
Dec	138,434.3	78,803.9	59,630.4	223.1	330,128.2	330.128.2	65,250.6	44,981.5	112,463.9	691,475.7
YTD	122,367.3	74,091.3	48,276.0	269.8	303,194.6	161.5	79,678.1	56,492.1	117,345.9	679,346.7

Table 2.3.2-2M (Cont.)
Sale of Petroleum Products

Unit : Barrels/Day

Month	2009										
	Gasoline			Kerosene		Diesel		J.P.	Fuel Oil	LPG*	Total
	Total	Regular	Premium	Total	HSD	LSD					
Jan	134,964.8	76,754.6	58,210.1	202.8	348,591.6	348,591.6	80,386.4	45,935.1	113,133.5	723,233.6	
Feb	132,196.0	74,914.8	57,281.2	314.4	323,313.2	323,313.2	81,923.3	47,666.9	109,800.2	695,210.0	
Mar	134,315.6	75,679.3	58,636.2	344.9	330,128.2	330,128.2	82,111.0	43,480.1	113,397.2	703,759.1	
Apr	133,027.2	74,910.3	58,095.8	251.5	332,788.2	332,788.2	72,226.7	40,883.0	111,369.6	690,547.2	
May	132,286.6	74,644.5	57,642.0	263.7	336,864.3	336,864.3	70,850.4	43,622.1	113,052.3	696,959.5	
Jun	127,450.3	72,415.4	55,034.9	293.5	305,931.1	305,931.1	67,509.4	45,432.6	117,994.8	664,627.9	
Jul	128,005.6	73,366.3	54,639.2	263.7	298,659.4	298,659.4	72,291.0	44,393.1	121,269.5	664,889.2	
Aug	125,063.6	71,601.1	53,462.4	284.0	293,445.1	293,445.1	73,630.1	45,529.3	123,886.8	661,856.6	
Sep	125,815.0	72,604.1	53,210.8	356.4	292,345.4	292,345.4	72,646.0	48,325.8	123,194.3	662,682.9	
Oct	126,463.6	72,656.2	53,807.4	344.9	298,720.3	298,720.3	76,632.9	59,894.2	124,089.7	686,163.6	
Nov	123,089.5	71,115.5	51,994.8	335.4	309,013.1	309,013.1	81,850.0	46,690.5	125,815.0	686,804.5	
Dec	133,179.4	76,693.8	56,485.5	385.4	347,962.6	347,962.6	84,464.6	52,691.4	127,843.3	746,522.6	
YTD	129,660.9	73,953.1	55,707.8	303.2	318,195.2	318,195.2	76,363.8	47,059.0	118,803.0	690,385.4	

Source : Department of Energy Business

Compiled by : Energy Policy and Planning Office (EPPO)

* Excluding LPG used as Feedstock in Petrochemical Industry

Table 2.3.3-1M
Import of Petroleum Products

Unit : Million Litres

Month	2005									
	Gasoline		Kerosene	Diesel		J.P.	Fuel Oil	LPG	Total	Total
	Total	Regular		Premium	HSD					
Jan	167.7			167.7		0.2			167.8	
Feb	115.7			115.7					115.6	
Mar	8.3			8.3		0.5	191.8		200.6	
Apr	173.0			173.0		0.1	157.2		330.3	
May	172.1			172.1		0.2	121.8		294.1	
Jun	46.0			46.0		0.1	232.4		278.5	
Jul	3.0			3.0		0.2	228.6		231.7	
Aug	8.5			8.5		0.1	20.4		29.0	
Sep	8.4			8.4			144.3		152.7	
Oct	6.1			6.1		0.5	55.3		61.9	
Nov	2.2			2.2		0.2	183.0		185.4	
Dec	8.3			8.3		0.4	107.9		116.5	
Total	719.4			719.4		2.6	1,442.8		2,164.7	

Month	2006									
	Gasoline		Kerosene	Diesel		J.P.	Fuel Oil	LPG	Total	Total
	Total	Regular		Premium	HSD					
Jan	6.5			6.5		14.1	97.0		117.6	
Feb	8.2			8.2		0.6	91.7		100.6	
Mar	48.9			48.9			135.1		183.9	
Apr	125.4			125.4		17.4	220.9		363.6	
May	3.1			3.1		0.1	157.3		160.5	
Jun	6.3			6.3			81.7		88.0	
Jul	8.6			8.6			185.2		193.7	
Aug	22.3			22.3			74.0		96.3	
Sep	6.1			6.1		0.2	53.9		60.2	
Oct	55.7			55.7		0.6	8.1		64.3	
Nov	9.3			9.3		0.4			9.7	
Dec	64.4			64.4		0.4			64.7	
Total	364.8			364.8		33.9	1,105.0		1,503.7	

Table 2.3.3-1M (Cont.)
Import of Petroleum Products

Unit : Million Litres

Month	2007									
	Gasoline		Kerosene		Diesel		J.P.	Fuel Oil	LPG	Total
	Total	Regular	Premium	Total	HSD	LSD				
Jan				7.4	7.4		16.3			23.7
Feb				22.2	22.2		23.7			45.9
Mar	73.1	60.3	12.8	56.8	56.8		0.6			130.5
Apr	17.9	13.6	4.2	24.7	24.7		0.2	91.2		134.0
May	13.2	13.2		29.0	29.0		0.2	14.3		56.6
Jun	40.2	30.3	9.9	21.2	21.2		0.1	56.2		117.7
Jul	17.8	17.8		9.2	9.2		0.4	40.9		68.2
Aug				3.0	3.0		0.3	9.8		13.2
Sep				9.2	9.2		0.2	84.0		93.4
Oct							0.2	85.5		85.7
Nov				5.1	5.1		0.2	152.8		158.1
Dec				3.0	3.0		0.2	1.4		4.6
Total	162.1	135.2	26.9	191.0	191.0		42.8	536.3		932.1

Month	2008									
	Gasoline		Kerosene		Diesel		J.P.	Fuel Oil	LPG	Total
	Total	Regular	Premium	Total	HSD	LSD				
Jan							8.1			8.0
Feb				2.4	2.4		0.2			2.6
Mar				6.1	6.1		0.2	58.1		64.4
Apr				58.5	58.5		0.3	190.4		249.2
May				3.0	3.0		0.2	5.7		8.9
Jun							0.3			0.2
Jul							0.1		3.5	3.6
Aug							0.3			0.3
Sep				8.3	8.3		36.8		8.1	53.2
Oct				2.2	2.2		0.4			2.5
Nov				3.0	3.0		0.2			3.2
Dec				6.0	6.0		0.6			6.6
Total				89.6	89.6		47.9	254.3	11.6	403.4

Table 2.3.3-1M (Cont.)
Import of Petroleum Products

Unit : Million Litres

Month	2009										Total
	Gasoline		Kerosene		Diesel		J.P.	Fuel Oil	LPG	Total	
	Total	Regular	Premium	Total	HSD	LSD					
Jan				22.6	22.6	0.2				22.8	
Feb	6.6	6.6		120.6	120.6					127.2	
Mar	7.5	7.5		201.2	201.2	0.3				208.9	
Apr				3.0	3.0	0.3				3.3	
May				4.3	4.3	0.3				4.5	
Jun				5.9	5.9	8.3				14.1	
Jul				3.0	3.0	0.2				3.2	
Aug				6.1	6.1	0.3		6.6		12.9	
Sep				3.0	3.0	0.2		15.4		18.6	
Oct				3.1	3.1	0.2		18.0		21.2	
Nov				6.2	6.2	0.2		43.2		49.6	
Dec				6.1	6.1	0.1				6.1	
Total	14.1	14.1		385.3	385.3	10.5		83.2		493.0	

Source : Department of Energy Business
Compiled by : Energy Policy and Planning Office (EPPO)

Table 2.3.3-2M
Import of Petroleum Products

Unit : Barrels/Day

Month	Gasoline		Kerosene		Diesel		J.P.	Fuel Oil	LPG	Total
	Total	Regular	Premium	Total	HSD	LSD				
Jan				34,025.2			40.5			34,059.1
Feb				25,989.9						25,986.1
Mar				1,684.0	1,684.0		101.4	38,915.0		40,701.4
Apr				36,270.6	36,270.6		20.9	32,958.0		69,252.3
May				34,918.0	34,918.0		40.5	24,712.4		59,684.2
Jun				9,644.2	9,644.2		20.9	48,724.2		58,410.1
Jul				608.6	608.6		40.5	46,381.4		47,029.9
Aug				1,724.5	1,724.5		20.2	4,139.0		5,887.1
Sep				1,761.1	1,761.1			30,253.4		32,015.6
Oct				1,237.6	1,237.6		101.4	11,220.0		12,566.8
Nov				461.2	461.2		41.9	38,367.1		38,881.9
Dec				1,684.0	1,684.0		81.1	21,892.2		23,655.3
YTD				12,396.7	12,396.7		44.8	24,862.4		37,302.8

Month	Gasoline		Kerosene		Diesel		J.P.	Fuel Oil	LPG	Total
	Total	Regular	Premium	Total	HSD	LSD				
Jan	1,318.8			1,318.8			2,860.8	19,680.6		23,860.9
Feb	1,841.9			1,841.9			134.7	20,598.7		22,598.4
Mar	9,921.5			9,921.5				27,410.9		37,318.4
Apr	26,290.9			26,290.9			3,648.0	46,313.1		76,244.2
May	628.9			628.9			20.2	31,915.1		32,582.6
Jun	1,320.8			1,320.8				17,128.9		18,449.7
Jul	1,744.8			1,744.8				37,575.9		39,318.1
Aug	4,524.5			4,524.5				15,014.1		19,553.2
Sep	1,278.9			1,278.9			41.9	11,300.5		12,630.7
Oct	11,301.1			11,301.1			121.7	1,643.4		13,064.7
Nov	1,949.8			1,949.8			83.8			2,044.9
Dec	13,066.3			13,066.3			81.1			13,140.4
YTD	6,266.2			6,266.2			584.1	19,041.4		25,911.9

Oil

Table 2.3.3-2M (Cont.)
Import of Petroleum Products

Unit : Barrels/Day

Month	2007									
	Gasoline		Kerosene		Diesel		J.P.		LPG	Total
	Total	Regular	Premium	Total	HSD	LSD	HSD	LSD		
Jan				1,501.4	1,501.4		3,307.1			4,815.0
Feb				4,986.8	4,986.8		5,323.7			10,314.6
Mar	14,831.5	12,234.4	2,597.0	11,524.3	11,524.3		121.7			26,490.8
Apr	3,752.8	2,851.3	880.5	5,178.5	5,178.5		41.9	19,120.6		28,094.4
May	2,678.1	2,678.1		5,883.9	5,883.9		40.5	2,901.3		11,497.1
Jun	8,428.2	6,352.6	2,075.6	4,444.7	4,444.7		20.9	11,782.7		24,681.2
Jul	3,611.5	3,611.5		1,866.6	1,866.6		81.1	8,298.3		13,856.8
Aug				608.6	608.6		60.8	1,988.3		2,682.4
Sep				1,928.8	1,928.8		41.9	17,611.1		19,596.2
Oct							40.5	17,347.4		17,394.4
Nov				1,069.2	1,069.2		41.9	32,035.5		33,153.8
Dec				608.6	608.6		40.5	284.0		951.3
YTD	2,793.3	2,329.7	463.5	3,291.3	3,291.3		737.5	9,241.5		16,062.7
Month	2008									
	Gasoline		Kerosene		Diesel		J.P.		LPG	Total
	Total	Regular	Premium	Total	HSD	LSD	HSD	LSD		
Jan							1,643.4			1,642.6
Feb				539.1	539.1		44.9			605.1
Mar				1,237.6	1,237.6		40.5	11,788.1		13,067.1
Apr				12,264.9	12,264.9		62.8	39,918.6		52,266.5
May				608.6	608.6		40.5	1,156.4		1,818.5
Jun							62.8			56.1
Jul							20.2	710.1		738.7
Aug							60.8			61.8
Sep				1,740.1	1,740.1		7,715.3	1,698.2		11,164.8
Oct				446.3	446.3		81.1			526.1
Nov				628.9	628.9		41.9			689.7
Dec				1,217.3	1,217.3		121.7			1,347.0
YTD				1,539.7	1,539.7		823.1	4,370.1	199.3	6,933.1

Table 2.3.3-2M (Cont.)
Import of Petroleum Products

Unit : Barrels/Day

Month	2009										Total
	Gasoline		Kerosene		Diesel		J.P.	Fuel Oil	LPG	Total	
	Total	Regular	Premium	Total	HSD	LSD					
Jan				4,585.3	4,585.3	40.5				4,635.1	
Feb	1,482.5	1,482.5		27,090.6	27,090.6					28,585.8	
Mar	1,521.7	1,521.7		40,822.2	40,822.2	60.8				42,397.4	
Apr				628.9	628.9	62.8				694.1	
May				872.4	872.4	60.8				927.6	
Jun				1,236.9	1,236.9	1,740.1				2,976.0	
Jul				608.6	608.6	40.5				656.3	
Aug				1,237.6	1,237.6	60.8		1,339.0		2,632.7	
Sep				628.9	628.9	41.9		3,228.7		3,904.4	
Oct				628.9	628.9	40.5		3,652.0		4,306.8	
Nov				1,299.8	1,299.8	41.9		9,057.1		10,407.9	
Dec				1,237.6	1,237.6	20.2				1,257.1	
YTD	242.9	242.9		6,639.5	6,639.5	180.9		1,433.7		8,496.1	

Source : Department of Energy Business
Compiled by : Energy Policy and Planning Office (EPPO)

Table 2.3.4-1M
Export of Petroleum Products

Unit : Million Litres

Month	Gasoline				Kerosene	Diesel		J.P.	Fuel Oil	LPG	Total
	Total	Regular	Premium	Total		HSD	LSD				
Jan	139.0	57.2	81.8	108.0	108.0		11.1	150.4	180.0	588.5	
Feb	101.5	48.7	52.8	73.6	73.6		11.1	117.7	111.6	415.4	
Mar	136.3	65.4	70.8	65.2	65.2		14.3	81.7	128.1	425.6	
Apr	176.4	71.9	104.5	51.7	51.7		11.8	30.0	150.2	420.1	
May	139.1	47.0	92.1	120.7	120.7		3.7	30.5	164.6	458.6	
Jun	148.1	57.4	90.7	99.8	99.8		42.3	20.2	135.3	445.6	
Jul	210.6	63.4	147.2	243.2	243.2	3.8	12.8	48.2	181.8	700.4	
Aug	222.1	83.6	138.5	373.1	373.1		190.5	151.1	151.6	1,088.4	
Sep	206.9	77.0	130.0	159.2	159.2		84.3	136.0	134.1	720.4	
Oct	185.9	61.5	124.4	144.4	144.4		125.3	31.7	110.0	597.2	
Nov	175.5	50.5	125.0	179.8	179.8		3.9	83.7	139.5	582.2	
Dec	180.4	54.9	125.6	190.3	190.3		88.3	22.4	168.4	649.8	
Total	2,021.9	738.5	1,283.4	1,809.0	1,809.0	3.8	599.3	903.4	1,755.3	7,092.7	

Month	Gasoline				Kerosene	Diesel		J.P.	Fuel Oil	LPG	Total
	Total	Regular	Premium	Total		HSD	LSD				
Jan	176.7	48.4	128.4	224.4	224.4		43.9	86.6	190.6	722.3	
Feb	149.8	55.0	94.8	147.4	147.4		119.2	105.5	104.1	625.9	
Mar	131.1	39.4	91.7	150.0	150.0	15.0	46.9	71.3	91.6	505.9	
Apr	200.9	25.8	175.2	122.1	122.1		2.6	135.1	117.2	577.9	
May	192.9	66.2	126.7	145.7	145.7		3.5	106.2	99.4	547.7	
Jun	157.2	64.9	92.2	198.7	198.7		14.8	96.5	73.2	540.3	
Jul	184.3	55.0	129.4	322.1	322.1		128.6	140.3	65.1	840.3	
Aug	190.2	53.6	136.6	370.4	370.4	4.6	181.0	153.7	56.0	955.9	
Sep	162.9	36.8	126.1	374.1	374.1	9.7	138.9	118.7	53.0	857.3	
Oct	118.5	24.5	94.1	348.0	348.0		47.0	60.1	62.2	635.9	
Nov	150.9	21.6	129.3	323.7	323.7	4.6	155.2	115.6	57.1	807.2	
Dec	106.3	23.2	83.0	213.8	213.8		135.6	228.9	97.7	782.2	
Total	1,921.9	514.4	1,407.5	2,940.5	2,940.5	34.0	1,017.3	1,418.6	1,067.2	8,399.3	

Table 2.3.4-1M (Cont.)
Export of Petroleum Products

Unit : Million Litres

Month	2007									
	Gasoline		Kerosene		Diesel		J.P.	Fuel Oil	LPG	Total
	Total	Regular	Premium	Total	HSD	LSD				
Jan	126.7	33.8	92.9	163.4	163.4	100.0	127.7	65.8	583.5	
Feb	123.4	33.4	89.9	137.6	137.6	49.1	133.7	100.4	554.3	
Mar	162.1	35.5	126.6	197.8	197.8	8.9	151.6	50.1	570.5	
Apr	166.5	36.8	129.8	143.9	143.9	6.0	168.7	53.5	543.8	
May	185.7	34.3	151.5	211.7	211.7	131.9	265.5	58.5	853.2	
Jun	134.1	32.4	101.7	226.6	226.6	33.0	213.7	36.9	649.6	
Jul	80.5	30.1	50.4	173.5	173.5	17.0	154.0	30.1	462.1	
Aug	119.2	33.8	85.5	216.3	216.3	32.5	243.5	29.5	645.9	
Sep	116.0	31.8	84.2	244.5	244.5	4.9	196.6	19.1	585.6	
Oct	132.4	122.0	10.4	336.4	336.4	5.7	193.6	29.2	697.2	
Nov	73.3	59.0	14.3	363.8	363.8	7.0	333.9	21.7	799.7	
Dec	158.9	60.3	98.6	274.0	274.0	53.0	295.4	19.2	800.4	
Total	1,578.9	543.2	1,035.7	2,689.5	2,689.5	449.0	2,478.0	514.0	7,746.6	

Month	2008									
	Gasoline		Kerosene		Diesel		J.P.	Fuel Oil	LPG	Total
	Total	Regular	Premium	Total	HSD	LSD				
Jan	191.4	51.4	140.1	258.8	258.8	99.2	284.8	16.4	850.7	
Feb	137.8	37.4	100.4	149.5	149.5	98.8	284.8	11.6	682.4	
Mar	146.6	48.3	98.3	302.9	302.9	99.8	320.1	0.1	878.9	
Apr	205.0	71.9	133.1	234.4	234.4	114.9	251.4	0.1	805.7	
May	83.1	30.7	52.3	377.5	377.5	66.5	327.1	2.8	907.4	
Jun	187.6	61.6	125.9	315.1	315.1	55.9	240.1	0.1	798.8	
Jul	176.7	86.6	90.1	429.4	429.4	115.4	205.6	0.1	927.1	
Aug	128.7	105.3	23.4	405.0	405.0	113.6	387.2	0.1	1,082.9	
Sep	63.4	36.3	27.0	285.9	285.9	98.0	275.1	0.2	722.6	
Oct	33.4	20.7	12.7	338.5	338.5	134.2	418.6	0.7	925.4	
Nov	34.0	21.9	12.1	331.5	331.5	111.1	205.5	5.0	687.0	
Dec	90.8	75.8	14.9	378.0	378.0	239.3	424.0	2.1	1,134.1	
Total	1,478.4	648.0	830.4	3,806.3	3,806.3	1,346.8	3,624.3	39.3	10,403.6	

Oil

Table 2.3.4-1M (Cont.)
Export of Petroleum Products

Unit : Million Litres

Month	2009											Total
	Gasoline		Kerosene		Diesel		J.P.	Fuel Oil	LPG	Total		
	Total	Regular	Premium	Total	HSD	LSD						
Jan	133.5	29.8	103.7	282.0	282.0	101.4	399.8	2.0	918.7			
Feb	52.6	41.8	10.8	145.5	145.5	104.8	323.8	1.6	628.2			
Mar	72.3	59.0	13.3	244.0	244.0	54.2	327.3	1.8	699.6			
Apr	124.9	111.9	12.9	352.9	352.9	77.9	328.0	2.1	885.7			
May	120.4	107.4	13.0	600.5	600.5	197.6	278.4	2.8	1,199.7			
Jun	158.1	146.6	11.5	275.9	275.9	102.0	500.2	2.8	1,045.4			
Jul	143.8	85.4	58.4	332.2	332.2	205.5	329.0	1.7	1,012.1			
Aug	153.3	97.8	55.5	569.8	569.8	152.1	300.9	1.7	1,177.8			
Sep	109.4	58.8	50.6	469.0	469.0	159.7	343.4	2.3	1,083.8			
Oct	114.7	62.9	51.8	638.4	638.4	172.2	210.8	3.0	1,139.1			
Nov	87.0	36.1	50.9	370.4	370.4	114.1	267.3	2.7	847.9			
Dec	81.2	66.5	14.8	515.9	515.9	167.5	269.0	3.2	1,043.1			
Total	1,351.1	903.9	447.2	4,796.5	4,796.5	1,609.3	3,876.0	27.8	11,681.6			

Source : Department of Energy Business
Compiled by : Energy Policy and Planning Office (EPPO)

Table 2.3.4-2M
Export of Petroleum Products

Unit : Barrels/Day

Month	2005									
	Gasoline		Kerosene		Diesel		J.P.	Fuel Oil	LPG	Total
	Total	Regular	Premium	Total	HSD	LSD				
Jan	28,202.2	11,605.5	16,596.7	21,912.5	21,912.5	2,252.1	30,515.2	36,520.8	119,409.0	
Feb	22,800.1	10,939.5	11,860.5	16,532.9	16,532.9	2,493.4	26,439.2	25,068.9	93,317.3	
Mar	27,654.4	13,269.2	14,364.8	13,228.6	13,228.6	2,901.3	16,576.4	25,990.6	86,354.6	
Apr	36,983.4	15,074.3	21,909.1	10,839.2	10,839.2	2,473.9	6,289.7	31,490.4	88,079.5	
May	28,222.5	9,536.0	18,686.5	24,489.2	24,489.2	750.7	6,188.2	33,396.2	93,061.4	
Jun	31,050.1	12,034.2	19,015.8	20,923.7	20,923.7	8,868.4	4,235.0	28,366.5	93,443.5	
Jul	42,729.4	12,863.4	29,865.9	770.9	49,343.7	2,597.0	9,779.4	36,886.0	142,117.2	
Aug	45,062.6	16,961.9	28,100.7	75,699.6	75,699.6	38,651.2	30,657.2	30,758.6	220,829.8	
Sep	43,377.9	16,143.5	27,255.3	33,377.3	33,377.3	17,674.0	28,513.3	28,114.9	151,050.4	
Oct	37,717.9	12,477.9	25,239.9	29,297.8	29,297.8	25,422.5	6,431.7	22,318.3	121,171.1	
Nov	36,794.7	10,587.6	26,207.0	37,696.2	37,696.2	817.6	17,548.2	29,247.1	122,081.1	
Dec	36,602.0	11,138.8	25,483.4	38,610.6	38,610.6	17,915.5	4,544.8	34,167.2	131,853.3	
YTD	34,841.5	12,725.8	22,115.6	65.4	31,172.8	10,327.1	15,567.4	30,247.4	122,222.5	

Month	2006									
	Gasoline		Kerosene		Diesel		J.P.	Fuel Oil	LPG	Total
	Total	Regular	Premium	Total	HSD	LSD				
Jan	35,851.3	9,820.0	26,051.5	45,529.3	45,529.3	8,907.0	17,570.5	38,671.5	146,552.5	
Feb	33,649.9	12,354.7	21,295.1	33,110.7	33,110.7	26,776.1	23,698.7	23,384.2	140,609.9	
Mar	26,599.3	7,994.0	18,605.3	3,043.4	30,434.0	9,515.7	14,466.3	18,585.0	102,648.6	
Apr	42,120.0	5,409.1	36,731.8	25,599.0	25,599.0	545.1	28,324.6	24,571.7	121,178.2	
May	39,138.1	13,431.5	25,706.6	29,561.6	29,561.6	710.1	21,547.3	20,167.6	111,126.9	
Jun	32,958.0	13,606.7	19,330.3	41,658.8	41,658.8	3,102.9	20,231.8	15,346.8	113,291.5	
Jul	37,393.3	11,159.1	26,254.4	65,352.0	65,352.0	26,092.1	28,465.9	13,208.3	170,500.5	
Aug	38,590.3	10,875.1	27,715.2	933.3	75,151.8	36,723.7	31,184.7	11,362.0	193,964.7	
Sep	34,153.0	7,715.3	26,437.7	2,033.6	78,432.6	29,121.3	24,886.2	11,111.8	179,759.2	
Oct	24,042.8	4,970.8	19,092.2	70,606.9	70,606.9	9,536.0	12,193.9	12,619.9	129,020.2	
Nov	31,637.2	4,528.5	27,108.6	964.4	67,865.9	32,538.7	24,236.3	11,971.4	169,235.2	
Dec	21,567.5	4,707.1	16,840.1	43,378.6	43,378.6	27,512.3	46,442.3	19,822.7	158,721.2	
YTD	33,118.3	8,864.1	24,254.1	585.8	50,670.8	17,530.1	24,445.4	18,390.0	144,738.6	

Oil

Table 2.3.4-2M (Cont.)
Export of Petroleum Products

Unit : Barrels/Day

Month	2007									
	Gasoline		Kerosene		Diesel		J.P.	Fuel Oil	LPG	Total
	Total	Regular	Premium	Total	HSD	LSD				
Jan	25,706.6	6,857.8	18,848.8	33,152.8	30,909.4	2,289.3	20,289.3	25,909.5	13,350.4	118,408.3
Feb	27,719.6	7,502.7	20,194.4	2,268.7	30,909.4	11,029.4	11,029.4	30,033.3	22,553.0	124,523.3
Mar	32,889.0	7,202.7	25,686.3	40,132.3	40,132.3	1,805.7	1,805.7	30,758.6	10,164.9	115,770.6
Apr	34,907.8	7,715.3	27,213.4	1,111.1	30,169.6	1,257.9	1,257.9	35,369.1	11,216.6	114,025.1
May	37,677.3	6,959.2	30,738.3	42,952.5	42,952.5	26,761.6	26,761.6	53,868.2	11,869.2	173,123.8
Jun	28,114.9	6,792.8	21,322.0	1,132.1	47,508.2	6,918.6	6,918.6	44,803.6	7,736.3	136,198.2
Jul	16,332.9	6,107.0	10,225.8	1,420.2	35,202.0	3,449.1	3,449.1	31,245.6	6,107.0	93,757.6
Aug	24,184.9	6,857.8	17,347.4	1,014.4	43,885.9	6,594.0	6,594.0	49,404.6	5,985.3	131,069.1
Sep	24,320.1	6,667.0	17,653.1	943.4	51,261.0	1,027.3	1,027.3	41,218.5	4,004.4	122,792.8
Oct	26,863.1	24,753.0	2,110.0	68,253.4	68,253.4	1,156.4	1,156.4	39,280.2	5,924.4	141,469.7
Nov	15,367.8	12,369.7	2,998.0	76,273.1	76,273.1	1,467.5	1,467.5	70,004.4	4,549.5	167,679.0
Dec	32,239.8	12,234.4	20,005.3	55,592.8	55,592.8	10,753.3	10,753.3	59,934.7	3,895.5	162,412.9
YTD	27,207.7	9,360.4	17,847.2	641.0	46,345.6	7,737.1	7,737.1	42,701.0	8,857.2	133,490.1

Month	2008									
	Gasoline		Kerosene		Diesel		J.P.	Fuel Oil	LPG	Total
	Total	Regular	Premium	Total	HSD	LSD				
Jan	38,833.8	10,428.7	28,425.4	52,508.8	52,508.8	20,127.0	20,127.0	57,784.1	3,327.4	172,608.9
Feb	30,954.3	8,401.2	22,553.0	33,582.5	33,582.5	22,193.6	22,193.6	63,975.2	2,605.7	153,296.3
Mar	29,744.2	9,799.7	19,944.4	1,968.0	61,456.4	20,248.7	20,248.7	64,946.2		178,340.4
Apr	42,979.6	15,074.3	27,905.3	49,143.5	49,143.5	24,089.5	24,089.5	52,707.7	20.9	168,939.7
May	16,860.4	6,228.8	10,611.3	10,246.1	76,592.3	13,492.4	13,492.4	66,366.5	568.1	184,117.5
Jun	39,331.6	12,914.8	26,395.7	66,062.8	66,062.8	11,719.8	11,719.8	50,338.5	20.9	167,479.7
Jul	35,851.3	17,570.5	18,280.7	87,122.5	87,122.5	23,413.9	23,413.9	41,714.9	20.2	188,106.6
Aug	26,112.4	21,364.7	4,747.7	9,820.0	82,171.9	23,048.7	23,048.7	78,560.4	20.2	219,721.9
Sep	13,292.2	7,610.5	5,660.7	59,940.8	59,940.8	20,546.3	20,546.3	57,676.5	41.9	151,507.8
Oct	6,776.6	4,199.8	2,576.7	68,679.5	68,679.5	27,228.3	27,228.3	84,931.2	142.0	187,773.6
Nov	7,128.3	4,591.4	2,536.8	69,501.2	69,501.2	23,292.8	23,292.8	43,084.4	1,048.2	144,052.3
Dec	18,422.7	15,379.3	3,023.1	76,693.8	76,693.8	48,552.4	48,552.4	86,026.9	426.0	230,108.3
YTD	25,406.2	11,135.8	14,270.4	1,866.2	65,411.2	23,144.7	23,144.7	62,283.5	675.3	178,786.3

Table 2.3.4-2M (Cont.)
Export of Petroleum Products

Unit : Barrels/Day

Month	2009											Total
	Gasoline		Kerosene		Diesel		J.P.	Fuel Oil	LPG	Total		
	Total	Regular	Premium	Total	HSD	LSD						
Jan	27,086.3	6,046.2	21,040.0	57,216.0	57,216.0	20,573.4	81,116.8	405.7	186,401.6			
Feb	11,815.6	9,389.6	2,426.0	32,683.9	32,683.9	23,541.4	72,735.9	359.4	141,119.8			
Mar	14,669.2	11,970.7	2,698.4	49,506.0	49,506.0	10,996.8	66,407.0	365.2	141,954.3			
Apr	26,186.1	23,460.5	2,704.5	73,987.8	73,987.8	16,332.2	68,767.4	440.2	185,702.3			
May	24,428.3	21,790.7	2,637.6	121,837.6	121,837.6	40,091.7	56,485.5	568.1	243,428.0			
Jun	33,146.7	30,735.6	2,411.0	57,844.3	57,844.3	21,384.9	104,870.3	587.0	219,178.7			
Jul	29,176.1	17,327.1	11,848.9	67,401.2	67,401.2	41,694.6	66,752.0	344.9	205,361.1			
Aug	31,103.5	19,843.0	11,260.5	115,608.8	115,608.8	30,860.1	61,050.7	344.9	238,978.6			
Sep	22,936.4	12,327.8	10,608.6	98,329.0	98,329.0	33,482.1	71,996.1	482.2	227,235.7			
Oct	23,271.9	12,762.0	10,509.8	129,527.3	129,527.3	34,938.2	42,769.9	608.6	231,121.5			
Nov	18,240.1	7,568.6	10,671.5	77,656.8	77,656.8	23,921.8	56,041.2	566.0	177,777.9			
Dec	16,474.9	13,492.4	3,002.8	104,672.8	104,672.8	33,984.6	54,578.3	649.2	211,645.6			
YTD	23,282.2	15,576.0	7,706.1	82,653.6	82,653.6	27,731.5	66,825.9	479.0	201,298.1			

Source : Department of Energy Business
Compiled by : Energy Policy and Planning Office (EPPO)

Unit : Barrels/Day

Table 2.4-1M
Demand and Supply of Crude Oil and Oil Products

Month	Crude Oil Balance				Oil Products								
	Production	Import	Export	Throughput	Production	Import	Supply	Consumption	Mogas	Diesel Oil	Others	Export	Demand
Jan	167,967	843,677	75,608	951,535	934,589	85,251	1,019,841	883,226	124,107	351,185	407,933	135,793	1,019,019
Feb	165,763	794,872	45,505	842,309	859,664	50,206	909,871	928,230	138,108	384,053	406,069	106,657	1,034,887
Mar	169,409	864,128	38,901	917,981	916,852	85,187	1,002,039	902,668	121,471	372,716	408,481	98,782	1,001,450
Apr	158,396	805,765	48,127	952,605	943,844	134,759	1,078,603	882,635	128,698	359,947	393,988	101,328	983,963
May	162,692	918,272	42,032	912,246	918,803	94,045	1,012,849	888,999	122,874	371,578	394,546	106,958	995,958
Jun	183,077	852,456	76,048	944,311	946,055	84,302	1,030,357	905,657	134,380	357,882	413,394	104,283	1,009,941
Jul	197,878	884,311	63,747	951,565	978,492	82,303	1,060,796	830,830	116,941	297,703	416,185	161,071	991,901
Aug	204,114	861,209	97,573	914,827	939,222	58,670	997,892	853,108	127,398	318,023	407,686	232,354	1,085,463
Sep	203,101	823,162	71,165	924,240	949,268	59,294	1,008,562	833,705	121,094	297,201	415,409	174,372	1,008,077
Oct	190,038	799,342	79,631	870,032	853,558	64,031	917,590	812,709	115,100	294,359	403,248	128,565	941,275
Nov	201,346	624,670	84,436	810,030	830,161	45,238	875,399	788,823	123,369	316,130	349,324	139,513	928,337
Dec	195,433	850,771	62,805	912,032	924,607	62,424	987,032	819,740	126,785	334,779	358,175	150,812	970,552
YTD	183,377	827,701	65,580	909,197	916,713	75,624	992,337	860,396	124,899	337,641	397,856	137,029	997,426

Month	Crude Oil Balance				Oil Products								
	Production	Import	Export	Throughput	Production	Import	Supply	Consumption	Mogas	Diesel Oil	Others	Export	Demand
Jan	204,433	825,873	55,741	946,326	957,922	77,288	1,035,211	859,591	122,521	328,126	408,943	162,998	1,022,590
Feb	207,541	732,783	80,201	917,515	967,093	67,073	1,034,166	919,936	122,480	343,772	453,683	157,148	1,077,085
Mar	209,589	905,685	53,589	915,293	907,294	78,331	985,625	912,046	126,515	351,520	434,010	133,057	1,045,104
Apr	207,589	812,122	74,256	956,711	960,656	98,898	1,059,555	867,847	127,647	329,106	411,094	144,437	1,012,285
May	213,365	889,012	47,716	935,423	919,801	71,948	991,749	855,715	123,258	330,658	401,798	146,236	1,001,951
Jun	209,661	820,356	65,915	932,489	938,745	57,075	995,820	865,797	124,014	309,810	431,973	135,966	1,001,764
Jul	203,442	838,542	54,990	966,311	975,174	77,291	1,052,466	827,384	120,964	292,406	414,013	210,318	1,037,703
Aug	206,265	894,317	77,194	946,771	944,988	63,864	1,008,852	822,825	120,148	291,872	410,804	210,970	1,033,796
Sep	208,591	825,355	60,091	929,057	949,818	61,513	1,011,332	803,500	122,289	287,698	393,512	215,113	1,018,614
Oct	190,373	859,767	81,220	917,295	912,853	55,153	968,006	792,540	123,219	290,681	378,639	164,392	956,933
Nov	202,880	685,502	77,718	836,481	906,965	33,297	940,262	817,242	130,004	322,064	365,173	192,565	1,009,807
Dec	187,367	847,331	58,610	903,999	932,007	43,608	975,615	835,835	128,951	323,185	383,698	188,137	1,023,973
YTD	204,199	829,300	65,441	925,497	939,220	65,462	1,004,682	847,874	124,331	316,570	406,972	171,896	1,019,770

Table 2.4-1M (Cont.)
Demand and Supply of Crude Oil and Oil Products

Unit : Barrels/Day

Month	Crude Oil Balance			Oil Products				Oil Products					
	Production	Import	Export	Throughput	Production	Import	Supply	Consumption	Mogas	Diesel Oil	Others	Export	Demand
Jan	194,931	711,687	68,971	920,554	949,560	54,471	1,004,031	845,839	124,347	333,689	387,803	154,944	1,000,784
Feb	206,793	971,908	58,123	916,147	946,373	46,651	993,024	848,324	128,685	337,264	382,375	152,172	1,000,497
Mar	221,742	746,884	38,101	857,682	874,389	31,324	905,713	851,146	128,630	348,705	373,810	159,880	1,011,026
Apr	217,385	884,055	55,001	958,967	968,500	68,855	1,037,356	858,922	128,650	329,897	400,374	138,627	997,549
May	212,498	810,872	51,932	941,128	956,417	47,546	1,003,963	832,482	122,682	316,982	392,817	209,940	1,042,422
Jun	215,676	747,270	46,433	938,838	953,566	54,999	1,008,565	862,566	129,596	330,136	402,833	168,317	1,030,884
Jul	217,560	829,993	53,784	928,760	936,496	42,911	979,408	819,612	125,337	304,023	390,251	125,644	945,256
Aug	211,967	956,423	50,078	962,764	961,821	50,814	1,012,636	843,600	129,455	315,561	398,583	170,788	1,014,389
Sep	210,212	743,841	56,400	954,007	993,631	61,029	1,054,660	836,465	124,463	301,192	410,808	177,086	1,013,551
Oct	208,208	749,958	38,915	856,956	915,891	62,289	978,181	853,176	125,869	304,235	423,071	174,405	1,027,582
Nov	224,884	742,288	62,102	845,734	886,211	70,347	956,558	849,665	123,544	321,578	404,542	204,279	1,053,945
Dec	218,860	768,740	45,670	967,593	995,340	38,957	1,034,297	849,531	126,105	326,829	396,596	197,042	1,046,574
YTD	213,408	804,242	52,045	920,759	944,775	52,440	997,216	845,859	126,427	322,406	397,025	169,540	1,015,399
Month	Crude Oil Balance			Oil Products				Oil Products					
	Production	Import	Export	Throughput	Production	Import	Supply	Consumption	Mogas	Diesel Oil	Others	Export	Demand
Jan	216,910	864,859	42,796	980,056	989,713	41,974	1,031,688	862,315	122,226	330,534	409,555	197,022	1,059,338
Feb	221,460	953,603	40,542	982,437	992,585	15,206	1,007,791	917,983	129,991	341,808	446,183	179,828	1,097,812
Mar	214,434	944,025	38,628	994,005	1,010,377	51,178	1,061,555	889,151	122,494	344,138	422,518	197,533	1,086,684
Apr	226,541	830,330	53,255	1,029,148	1,052,981	81,741	1,134,723	885,631	126,475	338,198	420,957	202,366	1,087,998
May	233,010	878,567	41,501	1,009,443	1,023,897	11,094	1,034,992	831,089	117,426	314,243	399,418	206,609	1,037,698
Jun	238,409	773,552	49,076	873,575	913,859	27,158	941,018	787,246	117,141	285,497	384,607	185,646	972,892
Jul	221,557	758,576	52,284	958,245	971,221	60,213	1,031,435	749,334	113,324	252,831	383,178	220,818	970,153
Aug	240,371	847,375	40,069	859,247	936,023	34,321	970,345	747,917	119,354	268,898	359,665	259,537	1,007,454
Sep	242,638	694,085	50,493	804,585	867,390	53,680	921,071	760,460	119,110	267,567	373,782	179,206	939,666
Oct	244,174	841,189	52,655	945,323	972,010	36,553	1,008,563	760,132	121,708	282,996	355,428	226,259	986,391
Nov	227,497	562,372	41,473	805,538	856,915	41,862	898,778	719,063	125,374	294,120	299,569	207,116	926,180
Dec	226,238	817,666	48,894	892,854	930,381	13,303	943,684	793,493	138,430	330,128	324,935	268,189	1,061,683
YTD	229,455	813,784	45,988	927,967	959,915	39,087	999,003	807,978	122,703	304,024	381,250	211,288	1,019,267

Oil

Table 2.4-1M (Cont.)
Demand and Supply of Crude Oil and Oil Products

Unit : Barrels/Day

Month	Crude Oil Balance			Oil Products				Oil Products				Demand	
	Production	Import	Export	Throughput	Production	Import	Supply	Consumption	Mogas	Diesel Oil	Others		Export
Jan	234,661	756,027	62,037	895,691	984,399	39,563	1,023,963	857,231	134,965	348,592	373,674	236,233	1,093,465
Feb	232,534	647,308	40,616	881,320	920,716	43,543	964,260	829,938	132,206	323,309	374,423	167,132	997,071
Mar	253,484	974,758	32,854	998,480	1,056,866	70,949	1,127,815	851,520	134,312	330,120	387,086	166,714	1,018,234
Apr	237,667	838,598	51,339	964,855	1,000,671	18,768	1,019,440	832,787	133,021	332,793	366,972	226,754	1,059,542
May	238,367	805,458	53,355	941,225	1,053,566	29,712	1,083,278	830,307	132,287	336,867	361,153	268,890	1,099,197
Jun	241,694	885,576	22,364	950,366	1,038,430	22,264	1,060,695	803,777	127,447	305,938	370,390	254,104	1,057,881
Jul	236,371	747,927	62,698	953,377	1,047,490	36,883	1,084,373	812,950	127,997	298,668	386,285	255,691	1,068,642
Aug	238,561	757,617	39,767	910,044	1,010,320	38,769	1,049,090	806,076	125,064	293,453	387,558	268,355	1,074,432
Sep	220,506	893,332	24,027	974,246	1,033,304	50,595	1,083,899	807,529	125,824	292,346	389,359	268,412	1,075,942
Oct	220,654	788,596	28,316	931,736	1,015,807	49,096	1,064,903	820,813	126,466	298,720	395,626	279,854	1,100,668
Nov	240,066	846,463	37,463	918,065	1,007,357	56,927	1,064,284	797,693	123,096	309,021	365,576	223,144	1,020,837
Dec	259,817	691,657	36,976	916,799	1,017,966	54,586	1,072,553	888,863	133,183	347,953	407,725	262,832	1,151,696
YTD	237,941	803,361	41,066	936,633	1,016,306	42,691	1,058,997	828,472	129,660	318,195	380,617	240,405	1,068,878

Source : Ministry of Commerce

Compiled by : Energy Policy and Planning Office (EPPO)

Table 2.4-2M
Demand and Supply of LPG, Propane and Butane

Unit : Thousand Tons

Description	2005												Total
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
Total Supply	371	308	345	328	340	346	376	371	338	351	336	367	4,177
- Production	371	308	345	328	340	346	376	371	338	351	336	367	4,177
GSP	204	181	206	179	196	214	211	213	189	202	192	211	2,397
Refinery	151	112	123	132	126	115	149	144	133	132	126	138	1,581
Others	16	15	17	17	18	16	16	14	17	17	18	18	199
- Import													
Total Demand	353	292	327	317	330	333	370	353	343	327	337	365	4,047
- Consumption	256	232	257	236	241	260	272	272	270	268	262	274	3,099
Cooking	135	121	136	126	128	136	138	145	130	132	133	145	1,604
Industry	35	33	40	34	38	37	38	37	38	40	40	39	450
Automobile	23	21	23	22	23	23	24	26	27	30	29	32	303
Feedstock	63	54	57	51	50	63	73	64	66	60	60	58	720
Own Use	2	1	1	3	1	1			8	5			22
- Feedstock	2	1	1	3	1	1			8	5			22
- Energy													
- Export	97	60	69	81	89	73	98	82	72	59	75	91	948
Balance (Supply-Demand)	17	16	19	11	10	13	6	17	-5	24	-1	2	130
Description	2006												Total
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
Total Supply	388	321	319	334	333	339	345	366	371	359	334	352	4,159
- Production	388	321	319	334	333	339	345	366	371	359	334	352	4,159
GSP	220	183	193	184	191	190	184	206	209	204	196	196	2,357
Refinery	151	123	124	128	121	128	141	139	141	134	118	136	1,585
Others	16	15	2	22	22	21	20	21	21	21	19	19	218
- Import													
Total Demand	375	311	322	329	340	329	343	359	347	361	321	357	4,094
- Consumption	272	255	272	266	287	289	308	329	318	327	290	305	3,518
Cooking	137	127	138	130	143	140	147	156	148	150	149	156	1,721
Industry	39	39	44	37	43	43	44	45	44	44	44	43	511
Automobile	32	30	34	34	36	36	40	41	42	44	43	46	459
Feedstock	63	60	56	65	65	58	56	62	58	63	51	52	708
Own Use						12	20	24	26	26	3	7	119
- Feedstock						12	12	14	14	14	0	3	69
- Energy							8	11	12	12	3	4	49
- Export	103	56	49	63	54	40	35	30	29	34	31	53	576
Balance (Supply-Demand)	13	9	-2	5	-7	11	2	6	24	-2	13	-6	65

Oil

Table 2.4-2M (Cont.)
Demand and Supply of LPG, Propane and Butane

Unit : Thousand Tons

Description	2007												Total
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
Total Supply	398	342	338	355	377	380	369	388	383	382	367	391	4,469
- Production	398	342	338	355	377	380	369	388	383	382	367	391	4,469
GSP	227	177	200	191	225	237	227	239	232	237	235	239	2,667
Refinery	152	147	118	146	133	123	122	129	129	122	111	134	1,567
Others	18	18	19	18	20	20	19	21	22	22	21	18	236
- Import													
Total Demand	370	347	335	343	371	360	379	377	362	390	384	376	4,393
- Consumption	334	293	308	314	339	340	363	361	351	374	373	365	4,116
Cooking	156	143	153	143	153	151	157	168	156	166	172	167	1,884
Industry	47	44	50	43	50	50	50	53	52	55	55	54	602
Automobile	45	43	48	46	47	47	49	49	48	49	48	52	572
Feedstock	68	58	41	62	69	68	84	68	69	77	74	69	807
Own Use	18	5	16	20	21	24	24	23	26	27	23	23	251
- Feedstock	14	2	13	14	16	15	17	15	15	18	16	16	170
- Energy	4	2	3	6	5	9	7	9	11	10	8	7	81
- Export	36	54	27	29	32	20	16	16	10	16	12	10	278
Balance (Supply-Demand)	28	-4	3	12	6	21	-11	12	21	-8	-17	15	76
Description	2008												Total
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
Total Supply	376	371	389	390	408	378	493	448	426	469	350	307	4,803
- Production	376	371	389	368	408	378	383	380	357	379	256	307	4,351
GSP	216	219	224	217	246	243	233	241	230	238	155	203	2,664
Refinery	159	153	165	151	162	135	150	138	126	141	101	103	1,684
Others								1		1	0	1	3
- Import							110	68	69	90	93		452
Total Demand	393	367	382	373	422	404	441	462	443	450	334	339	4,810
- Consumption	384	361	382	373	420	404	441	461	443	450	331	338	4,788
Cooking	171	161	170	166	178	173	188	186	182	187	178	184	2,124
Industry	58	58	60	51	57	54	58	57	57	57	50	40	658
Automobile	52	50	57	55	60	66	81	79	73	75	67	60	776
Feedstock	71	65	66	72	92	83	87	113	102	96	24	32	903
Own Use	31	27	29	29	34	27	28	28	28	35	12	21	328
- Feedstock	19	17	20	18	20	20	19	20	18	19	1	6	198
- Energy	13	10	9	11	13	7	8	8	9	15	11	15	130
- Export	9	6	0	0	1	0	0	0	0	0	3	1	21
Balance (Supply-Demand)	-17	4	7	17	-14	-26	52	-14	-17	19	16	-32	-6

Table 2.4-2M (Cont.)
Demand and Supply of LPG, Propane and Butane

Unit : Thousand Tons

Description	2009												Total
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
Total Supply	394	342	416	386	455	422	466	468	453	473	468	476	5,217
- Production	374	342	393	371	388	378	398	377	364	361	356	362	4,463
GSP	224	217	230	220	238	233	235	224	218	217	219	221	2,695
Refinery	148	125	162	151	150	146	163	153	146	144	137	140	1,766
Others	2											1	2
- Import	20		23	14	67	44	68	91	90	112	112	114	753
Total Demand	383	341	426	409	431	431	472	467	453	467	455	486	5,223
- Consumption	382	340	425	408	429	430	471	466	451	465	453	485	5,208
Cooking	185	164	180	172	179	181	192	193	191	198	191	205	2,231
Industry	40	37	42	38	45	50	52	53	54	57	58	58	586
Automobile	56	54	58	55	56	55	55	56	54	56	55	58	666
Feedstock	69	75	107	103	111	108	130	117	113	117	109	127	1,289
Own Use	32	10	38	41	38	35	42	46	39	37	41	36	435
- Feedstock	11	1	16	18	17	18	18	19	21	19	20	17	195
- Energy	20	9	22	23	21	18	24	27	18	19	20	19	240
- Export	1	1	1	1	2	2	1	1	1	2	1	2	15
Balance (Supply-Demand)	11	1	-11	-24	24	-9	-6	1	1	6	13	-11	-6

Source : Department of Energy Business (DOEB)

Compiled by : Energy Policy and Planning Office (EPPO)



APPENDIX I

Chapter 3 NATURAL GAS

.....
บทที่ 3
ก๊าซธรรมชาติ

Table 3.1-1M
Production and Import of Natural Gas

Unit : MMSCFD

2005																			
Month	Sirikit	Banjasmas	Numphong	Erawan	Pailin	Satun	Gomin	Phuhorm	Funan & Jakrawan	Bongkot	Arthit	Yala	JDA	Others	Yadana	Yetakun	Total Import	Total Domestic	Grand Total
Jan	62	130	34	276	421	99	63	213	620	33	242	394	387	781	2,194	2,975			
Feb	58	122	33	279	441	92	56	240	648	37	273	449	441	890	2,278	3,168			
Mar	57	148	34	282	436	103	52	231	649	40	291	444	438	882	2,323	3,206			
Apr	54	168	33	284	437	141	53	215	342	42	301	450	446	896	2,070	2,965			
May	51	187	33	279	437	119	58	188	636	35	282	457	453	910	2,304	3,214			
Jun	82	175	33	273	453	125	58	191	652	44	310	462	457	919	2,396	3,316			
Jul	82	166	34	280	425	128	49	219	654	50	288	429	425	854	2,375	3,229			
Aug	57	170	33	279	453	139	44	237	653	37	294	437	434	871	2,395	3,266			
Sep	54	171	33	263	459	134	41	245	650	32	282	420	417	837	2,364	3,201			
Oct	54	139	33	274	394	145	30	199	604	40	324	439	435	874	2,236	3,110			
Nov	54	153	33	278	416	98	32	255	601	46	361	431	427	858	2,327	3,185			
Dec	54	149	33	282	450	86	33	225	554	54	320	362	355	717	2,239	2,956			
YTD	60	157	33	277	435	118	47	221	605	41	297	431	426	857	2,292	3,149			

2006																			
Month	Sirikit	Banjasmas	Numphong	Erawan	Pailin	Satun	Gomin	Phuhorm	Funan & Jakrawan	Bongkot	Arthit	Yala	JDA	Others	Yadana	Yetakun	Total Import	Total Domestic	Grand Total
Jan	53	154	32	268	450	93	42	236	616	32	368	351	342	692	2,345	3,037			
Feb	54	154	32	279	443	91	43	248	619	38	356	384	383	767	2,356	3,123			
Mar	53	120	32	280	468	81	40	267	653	36	365	474	456	930	2,396	3,325			
Apr	52	153	32	253	470	80	24	292	569	43	342	455	386	840	2,309	3,150			
May	51	138	32	282	452	69	22	238	629	48	386	488	455	943	2,346	3,289			
Jun	50	167	32	281	440	68	19	259	698	37	326	488	452	941	2,378	3,319			
Jul	52	182	31	288	414	113	18	255	634	38	333	460	426	886	2,358	3,244			
Aug	51	157	31	287	445	99	23	255	603	41	349	484	441	925	2,342	3,267			
Sep	50	170	29	287	420	111	25	270	644	45	314	478	435	913	2,364	3,277			
Oct	43	179	30	280	407	104	26	299	632	41	304	457	410	867	2,344	3,211			
Nov	48	181	29	274	432	87	23	291	647	48	346	487	445	932	2,405	3,337			
Dec	47	154	27	273	420	88	21	71	581	46	323	414	378	792	2,291	3,083			
YTD	50	159	31	278	438	90	27	6	627	41	343	452	417	869	2,353	3,222			

Table 3.1-1M (Cont.)
Production and Import of Natural Gas

2007														2008													
Month	Sirikit	Banjamas	Numphong	Erawan	Pailin	Satun	Gomin	Phuhorm	Funan & Jakrawan	Bongkot	Arthit	Yala	JDA	Others	Yadana	Yetakun	Total Import	Total Domestic	Grand Total								
Jan	43	154	29	279	420	81	20	71	288	632	317	36			426	398	823	2,370	3,193								
Feb	43	134	29	279	448	72	23	89	263	640	313	67			455	419	875	2,401	3,275								
Mar	40	158	28	281	465	103	22	89	290	636	336	64			500	452	952	2,511	3,462								
Apr	43	177	28	283	475	93	16	120	293	536	365	58			448	405	853	2,486	3,340								
May	44	179	27	282	463	109	9	118	322	650	353	78			496	450	946	2,633	3,579								
Jun	49	180	26	278	449	104	11	111	342	648	357	70			497	457	954	2,627	3,581								
Jul	51	186	25	280	466	115	14	106	309	644	337	69			461	429	890	2,601	3,492								
Aug	46	179	25	263	493	129	13	88	332	653	343	50			470	425	895	2,615	3,510								
Sep	49	175	26	280	422	129	9	71	332	645	310	56			503	460	963	2,504	3,467								
Oct	47	177	26	275	466	134	8	75	330	657	265	52			501	459	960	2,511	3,472								
Nov	47	179	21	275	456	117	8	83	322	606	250	91			489	449	939	2,454	3,393								
Dec	45	179	24	278	462	110	5	100	286	599	280	86			429	389	818	2,455	3,273								
YTD	46	172	26	278	457	108	13	93	309	629	319	65			473	433	906	2,515	3,421								
Month	Sirikit	Banjamas	Numphong	Erawan	Pailin	Satun	Gomin	Phuhorm	Funan & Jakrawan	Bongkot	Arthit	Yala	JDA	Others	Yadana	Yetakun	Total Import	Total Domestic	Grand Total								
Jan	44	175	23	277	441	125	1	72	317	626	313	107	24		403	378	781	2,546	3,328								
Feb	40	171	23	284	439	111		70	332	641	325	95	13		485	442	927	2,544	3,471								
Mar	43	148	26	287	425	109	7	95	338	662	13	83	52		511	461	972	2,611	3,582								
Apr	43	145	25	277	482	97	16	103	311	662	211	78	49		427	263	691	2,823	3,513								
May	42	153	24	275	440	100	23	94	287	648	425	83	94		428	400	828	3,001	3,829								
Jun	42	150	24	257	465	101	11	78	295	659	421	97	110		423	405	828	2,992	3,820								
Jul	42	140	23	357	446	94	10	83	290	630	377	136	82		446	422	867	2,944	3,811								
Aug	42	145	23	278	457	89	10	98	297	650	409	132	100		459	427	886	2,969	3,855								
Sep	38	115	23	258	450	82	15	98	286	538	463	138	102		474	439	913	2,856	3,769								
Oct	39	145	23	256	444	97	13	85	268	653	447		100		442	413	855	2,835	3,690								
Nov	38	145	22	246	371	58	15	79	202	469	217	121	335		379	359	738	2,550	3,288								
Dec	37	133	21	243	319	152	43	66	209	404	343	128	443		330	316	647	2,658	3,305								
YTD	41	147	23	275	431	101	14	85	286	604	278	100	126		434	394	828	2,778	3,606								

Table 3.1-1M (Cont.)
Production and Import of Natural Gas

Unit : MMSCFD

Month	2009														Total Import	Total Domestic	Grand Total		
	Sirikit	Banjamas	Numphong	Erawan	Pailin	Satun	Gomin	Phuorm	Funan & Jakrawan	Bongkot	Arthit	Yala	JDA	Others				Yadana	Yetakun
Jan	37	148	16	243	371	152	43	44	209	505	373	126	422	191	166	157	323	2,881	3,204
Feb	37	140	16	253	409	66	10	43	183	417	374	143	417	247	375	377	752	2,754	3,506
Mar	28	145	16	278	418	75	12	44	237	526	415	138	443	265	331	336	667	3,038	3,705
Apr	27	67	24	221	419	61	7	94	136	532	353	127	412	321	398	400	798	2,801	3,598
May	64	65	23	235	449	53	6	97	156	648	408	127	455	360	462	440	902	3,146	4,048
Jun	65	68	23	229	458	44	6	96	175	493	431	106	451	379	477	451	928	3,022	3,950
Jul	64	60	23	227	425	44	3	92	144	590	390	92	426	318	445	416	861	2,898	3,759
Aug	63	69	23	247	451	55	7	92	207	570	416	80	313	343	484	460	944	2,935	3,879
Sep	65	72	19	249	436	61	6	100	141	637	340	77	495	344	471	462	933	3,041	3,974
Oct	63	51	18	260	423	57	15	102	244	435	475	71	466	337	505	469	974	3,017	3,991
Nov	64	68	17	244	372	47	50	78	162	552	507	120	482	336	479	464	943	3,097	4,040
Dec	65	83	20	249	376	57	120	84	124	569	524	117	510	335	317	305	622	3,232	3,854
YTD	54	86	20	244	417	64	24	81	177	540	418	110	441	315	409	394	803	2,990	3,794

Remarks : Heat Value of NG from Myanmar = 1,000 BTU/SCF

Source : Department of Mineral Fuels (DMF)

Compiled by : Energy Policy and Planning Office (EPPO)

Table 3.2-1M
Distribution of NGL

Month	(Million Litres)			(Barrels)			(Barrels/Day)					
	Export	Refinery	Solvent	Total	Export	Refinery	Solvent	Total	Export	Refinery	Solvent	Total
Jan	15	1	43	58	91,771	6,287	269,261	367,319	2,960	202	8,685	11,849
Feb	25	2	30	56	155,281	9,457	185,880	350,620	5,545	337	6,638	12,522
Mar	13		33	46	79,885		208,387	288,272	2,576		6,722	9,299
Apr	17		41	58	107,196		256,274	363,471	3,573		8,542	12,115
May	18		44	62	113,143		277,843	390,986	3,649		8,962	12,612
Jun	15		48	62	92,119		300,395	392,514	3,070		10,013	13,083
Jul	19		49	68	120,688		306,133	426,821	3,893		9,875	13,768
Aug	15		51	66	96,574		319,835	416,409	3,115		10,317	13,432
Sep	10		50	59	61,928		311,655	373,583	2,064		10,388	12,452
Oct	10		50	60	61,659		313,172	374,832	1,989		10,102	12,091
Nov	10		50	60	63,572		314,501	378,073	2,119		10,483	12,602
Dec	10	3	56	69	62,997	18,866	351,761	433,625	2,032	608	11,347	13,987
YTD	176	6	543	724	1,106,817	34,611	3,415,103	4,556,531	3,032	94	9,356	12,483

Month	(Million Litres)			(Barrels)			(Barrels/Day)					
	Export	Refinery	Solvent	Total	Export	Refinery	Solvent	Total	Export	Refinery	Solvent	Total
Jan	15	5	44	64	94,558	30,988	274,871	400,419	3,050	999	8,866	12,916
Feb	13	5	47	64	79,799	31,151	294,643	405,595	2,850	1,112	10,522	14,485
Mar	5	5	44	54	30,255	31,086	275,481	336,823	975	1,002	8,886	10,865
Apr	10	5	52	67	63,508	31,457	329,338	424,304	2,116	1,048	10,977	14,143
May	5	5	50	60	28,643	31,389	317,590	377,623	923	1,012	10,244	12,181
Jun	2	5	52	59	14,766	31,519	325,513	371,799	492	1,050	10,850	12,393
Jul	5	5	47	57	29,091	31,568	294,736	355,396	938	1,018	9,507	11,464
Aug	5	5	47	57	29,893	31,529	296,814	358,236	964	1,017	9,574	11,556
Sep	15	7	44	66	92,553	44,072	276,651	413,277	3,085	1,469	9,221	13,775
Oct	20	3	39	63	127,657	19,565	247,210	394,434	4,118	631	7,974	12,723
Nov	15	7	38	60	92,588	44,610	241,677	378,876	3,086	1,487	8,055	12,629
Dec	20	0	43	62	124,973	533	267,320	392,827	4,031	17	8,623	12,671
YTD	129	57	547	733	808,290	359,473	3,441,850	4,609,614	2,214	984	9,429	12,629

Table 3.2-1M (Cont.)
Distribution of NGL

Month	(Million Litres)				(Barrels)				(Barrels/Day)			
	Export	Refinery	Solvent	Total	Export	Refinery	Solvent	Total	Export	Refinery	Solvent	Total
2007												
Jan	10	1	54	65	62,897	6,495	339,546	408,938	2,028	209	10,953	13,191
Feb	12	5	36	54	77,802	31,436	227,700	336,939	2,778	1,122	8,132	12,033
Mar	20	0	42	62	124,892	455	266,694	392,041	4,028	14	8,603	12,646
Apr	5		52	57	29,568		328,876	358,445	985		10,962	11,948
May	12		54	66	76,448		340,164	416,613	2,466		10,973	13,439
Jun	25		49	74	157,211		306,533	463,744	5,240		10,217	15,458
Jul	17		54	72	109,499		341,588	451,088	3,532		11,018	14,551
Aug	5		61	66	29,565		385,952	415,517	953		12,450	13,403
Sep	7		64	71	45,325		400,454	445,780	1,510		13,348	14,859
Oct	5		61	65	30,184		380,760	410,945	973		12,282	13,256
Nov	5		56	61	30,226		354,850	385,076	1,007		11,828	12,835
Dec	10		66	76	60,788		416,889	477,678	1,960		13,448	15,408
YTD	133	6	650	789	834,411	38,387	4,090,011	4,962,810	2,286	105	11,205	13,596
2008												
Month	(Million Litres)				(Barrels)				(Barrels/Day)			
Export	Refinery	Solvent	Total	Export	Refinery	Solvent	Total	Export	Refinery	Solvent	Total	
Jan	5		54	59	29,850		341,508	371,358	962		11,016	11,979
Feb	20		56	75	124,656		349,500	474,156	4,452		12,482	16,934
Mar	7		60	67	45,304		374,758	420,063	1,461		12,088	13,550
Apr	10		56	66	61,682		354,709	416,392	2,056		11,823	13,879
May	10		66	76	62,938		417,429	480,367	2,030		13,465	15,495
Jun	20		59	79	127,482		372,512	499,995	4,249		12,417	16,666
Jul	10		64	74	62,575		402,301	464,876	2,018		12,977	14,996
Aug	5		62	67	30,273		391,454	421,728	976		12,627	13,604
Sep	5		63	67	30,266		393,169	423,436	1,008		13,105	14,114
Oct	26		46	71	160,682		286,618	447,300	5,183		9,245	14,429
Nov	15		36	51	95,190		228,183	323,374	3,173		7,606	10,779
Dec	10		50	60	63,175		314,234	377,409	2,037		10,136	12,174
YTD	142		672	814	894,079		4,226,379	5,120,458	2,442		11,547	13,990

Natural Gas

Table 3.2-1M (Cont.)
Distribution of NGL

Month	(Million Litres)			(Barrels)			(Barrels/Day)				
	Export	Refinery	Solvent	Total	Export	Refinery	Solvent	Total	Export	Refinery	Solvent
Jan	5	60	60	65	30,224	376,547	406,772	974	12,146	13,121	
Feb	5	54	59	59	30,242	340,727	370,969	1,080	12,168	13,248	
Mar	5	58	63	63	30,233	366,473	396,707	975	11,821	12,797	
Apr	15	45	60	60	94,323	283,584	377,907	3,144	9,452	12,596	
May	15	59	74	74	95,478	372,001	467,479	3,079	12,000	15,080	
Jun	15	56	71	71	95,100	354,295	449,396	3,170	11,809	14,979	
Jul	10	48	58	58	62,952	301,068	364,020	2,030	9,711	11,742	
Aug	10	60	70	70	62,721	377,461	440,183	2,023	12,176	14,199	
Sep	5	60	65	65	30,216	380,330	410,546	1,007	12,677	13,684	
Oct	5	55	60	60	29,878	346,788	376,666	963	11,186	12,150	
Nov	20	59	79	79	125,620	372,240	497,861	4,187	12,408	16,595	
Dec	5	61	66	66	30,215	382,168	412,384	974	12,328	13,302	
YTD	114	676	790	790	717,208	4,253,688	4,970,897	1,964	11,653	13,618	

Source: PTT
Compiled by: Energy Policy and Planning Office (EPPO)

Table 3.2-2M
Consumption of Natural Gas by Sector

Unit : MMSCFD

2005									
Month	Electricity			Industry	GSP	NGV	Grand Total		
	EGAT	IPP	SPP					Total	
Jan	916	769	401	270	484	6	2,846		
Feb	993	878	417	249	468	6	3,012		
Mar	1,064	817	430	258	485	7	3,061		
Apr	946	831	401	234	438	6	2,856		
May	1,146	842	431	248	422	6	3,095		
Jun	1,021	843	447	248	523	6	3,088		
Jul	1,010	811	434	244	534	6	3,039		
Aug	1,049	820	437	275	513	7	3,101		
Sep	1,094	730	449	273	495	7	3,047		
Oct	955	817	441	263	493	7	2,976		
Nov	1,015	805	435	277	514	8	3,054		
Dec	925	668	418	257	522	7	2,797		
YTD	1,011	802	428	258	491	6	2,997		
2006									
Month	Electricity			Industry	GSP	NGV	Grand Total		
	EGAT	IPP	SPP					Total	
Jan	851	785	413	274	514	9	2,846		
Feb	949	819	404	275	573	8	3,028		
Mar	1,153	829	413	281	496	9	3,180		
Apr	1,016	786	406	262	515	8	2,994		
May	1,149	831	393	297	493	10	3,172		
Jun	1,116	790	436	289	512	10	3,153		
Jul	1,052	844	417	285	508	10	3,117		
Aug	945	923	426	301	545	13	3,152		
Sep	993	866	437	292	549	12	3,150		
Oct	1,008	811	426	307	530	14	3,097		
Nov	1,031	858	416	321	542	14	3,182		
Dec	922	751	415	303	549	13	2,954		
YTD	1,016	825	417	291	527	11	3,086		

Natural Gas

Table 3.2-2M (Cont.)
Consumption of Natural Gas by Sector

Unit : MMSCFD

Month	2007					Grand Total		
	Electricity		Industry	GSP	NGV			
	EGAT	IPP					SPP	Total
Jan	888	787	430	2,105	362	596	14	3,077
Feb	969	822	443	2,235	354	485	16	3,090
Mar	1,232	818	450	2,501	327	492	18	3,338
Apr	1,137	756	423	2,316	334	490	19	3,160
May	1,179	818	448	2,445	348	580	19	3,393
Jun	1,188	862	472	2,522	333	535	21	3,412
Jul	1,069	895	450	2,413	325	558	22	3,318
Aug	1,102	863	441	2,407	358	630	25	3,420
Sep	1,064	880	450	2,394	338	609	27	3,367
Oct	982	917	451	2,349	371	628	30	3,377
Nov	933	912	450	2,295	367	620	34	3,316
Dec	897	835	428	2,159	350	627	36	3,173
YTD	1,054	847	445	2,346	347	572	24	3,288

Month	2008					Grand Total		
	Electricity		Industry	GSP	NGV			
	EGAT	IPP					SPP	Total
Jan	905	878	446	2,229	365	585	41	3,220
Feb	917	967	452	2,335	377	619	47	3,378
Mar	914	1,068	453	2,435	370	594	52	3,450
Apr	1,044	839	432	2,316	376	587	57	3,336
May	1,069	1,079	444	2,592	374	630	63	3,659
Jun	1,068	1,085	437	2,591	357	647	72	3,667
Jul	1,088	1,084	452	2,625	392	593	83	3,693
Aug	1,118	1,052	450	2,620	366	602	91	3,680
Sep	1,019	1,035	456	2,510	383	611	98	3,602
Oct	1,055	1,013	449	2,516	340	593	107	3,556
Nov	995	874	421	2,289	317	400	108	3,115
Dec	978	638	398	2,014	315	531	108	2,968
YTD	1,014	968	441	2,423	361	583	77	3,444

Table 3.2-2M (Cont.)
Consumption of Natural Gas by Sector

Unit : MMSCFD

Month	2009					Grand Total			
	EGAT	IPP	Electricity	SPP	Total		Industry	GSP	NGV
Jan	913	529	412	412	1,854	341	568	117	2,881
Feb	1,050	856	419	419	2,325	357	599	133	3,413
Mar	1,197	850	426	426	2,473	374	593	138	3,578
Apr	1,149	810	404	404	2,364	363	597	126	3,451
May	1,193	883	435	435	2,511	373	618	133	3,635
Jun	1,092	1,027	447	447	2,565	403	625	142	3,735
Jul	1,054	992	415	415	2,461	372	622	143	3,597
Aug	1,056	1,036	438	438	2,531	376	587	150	3,643
Sep	1,100	1,073	444	444	2,617	420	605	151	3,793
Oct	1,109	1,053	438	438	2,599	434	574	154	3,761
Nov	1,163	949	442	442	2,554	432	607	159	3,752
Dec	1,137	804	428	428	2,369	397	592	167	3,526
YTD	1,101	905	429	429	2,435	387	599	143	3,564

Remarks : Heat value of NG = 1,000 BTU/SCF
Compiled by: Energy Policy and Planning Office (EPPO)

Table 3.2-3M
Consumption Share of Natural Gas by Sector

2005									
Month	MMSCFD				Share (%)				
	Electricity	Industry	GSP	NGV	Total	Electricity	Industry	GSP	Total
Jan	2,086	270	484	6	2,846	73.3	9.5	17.0	100.0
Feb	2,289	249	468	6	3,012	76.0	8.3	15.5	100.0
Mar	2,311	258	485	7	3,061	75.5	8.4	15.8	100.0
Apr	2,178	234	438	6	2,856	76.3	8.2	15.3	100.0
May	2,419	248	422	6	3,095	78.2	8.0	13.6	100.0
Jun	2,311	248	523	6	3,088	74.8	8.0	16.9	100.0
Jul	2,255	244	534	6	3,039	74.2	8.0	17.6	100.0
Aug	2,306	275	513	7	3,101	74.4	8.9	16.5	100.0
Sep	2,273	273	495	7	3,047	74.6	9.0	16.2	100.0
Oct	2,213	263	493	7	2,976	74.4	8.8	16.6	100.0
Nov	2,255	277	514	8	3,054	73.8	9.1	16.8	100.0
Dec	2,011	257	522	7	2,797	71.9	9.2	18.7	100.0
YTD	2,242	258	491	6	2,997	74.8	8.6	16.4	100.0
2006									
Month	MMSCFD				Share (%)				
	Electricity	Industry	GSP	NGV	Total	Electricity	Industry	GSP	Total
Jan	2,050	274	514	9	2,846	72.0	9.6	18.1	100.0
Feb	2,172	275	573	8	3,028	71.7	9.1	18.9	100.0
Mar	2,395	281	496	9	3,180	75.3	8.8	15.6	100.0
Apr	2,209	262	515	8	2,994	73.8	8.7	17.2	100.0
May	2,373	297	493	10	3,172	74.8	9.4	15.5	100.0
Jun	2,342	289	512	10	3,153	74.3	9.2	16.2	100.0
Jul	2,314	285	508	10	3,117	74.2	9.1	16.3	100.0
Aug	2,293	301	545	13	3,152	72.8	9.6	17.3	100.0
Sep	2,296	292	549	12	3,150	72.9	9.3	17.4	100.0
Oct	2,245	307	530	14	3,097	72.5	9.9	17.1	100.0
Nov	2,305	321	542	14	3,182	72.4	10.1	17.0	100.0
Dec	2,089	303	549	13	2,954	70.7	10.3	18.6	100.0
YTD	2,257	291	527	11	3,086	73.2	9.4	17.1	100.0

Table 3.2-3M (Cont.)
Consumption Share of Natural Gas by Sector

Month	MMSCFD				Share (%)				
	Electricity	Industry	GSP	NGV	Total	Electricity	Industry	GSP	Total
2007									
Jan	2,105	362	596	14	3,077	68.4	11.8	19.4	100.0
Feb	2,235	354	485	16	3,090	72.3	11.5	15.7	100.0
Mar	2,501	327	492	18	3,338	74.9	9.8	14.7	100.0
Apr	2,316	334	490	19	3,160	73.3	10.6	15.5	100.0
May	2,445	348	580	19	3,393	72.1	10.3	17.1	100.0
Jun	2,522	333	535	21	3,412	73.9	9.8	15.7	100.0
Jul	2,413	325	558	22	3,318	72.7	9.8	16.8	100.0
Aug	2,407	358	630	25	3,420	70.4	10.5	18.4	100.0
Sep	2,394	338	609	27	3,367	71.1	10.0	18.1	100.0
Oct	2,349	371	628	30	3,377	69.6	11.0	18.6	100.0
Nov	2,295	367	620	34	3,316	69.2	11.1	18.7	100.0
Dec	2,159	350	627	36	3,173	68.1	11.0	19.7	100.0
YTD	2,346	347	572	24	3,288	71.3	10.6	17.4	100.0
2008									
MMSCFD									
Share (%)									
Month	Electricity	Industry	GSP	NGV	Total	Electricity	Industry	GSP	Total
Jan	2,229	365	585	41	3,220	69.2	11.3	18.2	100.0
Feb	2,335	377	619	47	3,378	69.1	11.2	18.3	100.0
Mar	2,435	370	594	52	3,450	70.6	10.7	17.2	100.0
Apr	2,316	376	587	57	3,336	69.4	11.3	17.6	100.0
May	2,592	374	630	63	3,659	70.8	10.2	17.2	100.0
Jun	2,591	357	647	72	3,667	70.7	9.7	17.6	100.0
Jul	2,625	392	593	83	3,693	71.1	10.6	16.1	100.0
Aug	2,620	366	602	91	3,680	71.2	9.9	16.4	100.0
Sep	2,510	383	611	98	3,602	69.7	10.6	17.0	100.0
Oct	2,516	340	593	107	3,556	70.8	9.6	16.7	100.0
Nov	2,289	317	400	108	3,115	73.5	10.2	12.9	100.0
Dec	2,014	315	531	108	2,968	67.8	10.6	17.9	100.0
YTD	2,423	361	583	77	3,444	70.4	10.5	16.9	100.0

Table 3.2-3M (Cont.)
Consumption Share of Natural Gas by Sector

Month	MMSCFD					Share (%)				
	Electricity	Industry	GSP	NGV	Total	Electricity	Industry	GSP	NGV	Total
Jan	1,854	341	568	117	2,881	64.4	11.9	19.7	4.1	100.0
Feb	2,325	357	599	133	3,413	68.1	10.5	17.5	3.9	100.0
Mar	2,473	374	593	138	3,578	69.1	10.5	16.6	3.8	100.0
Apr	2,364	363	597	126	3,451	68.5	10.5	17.3	3.6	100.0
May	2,511	373	618	133	3,635	69.1	10.3	17.0	3.7	100.0
Jun	2,565	403	625	142	3,735	68.7	10.8	16.7	3.8	100.0
Jul	2,461	372	622	143	3,597	68.4	10.4	17.3	4.0	100.0
Aug	2,531	376	587	150	3,643	69.5	10.3	16.1	4.1	100.0
Sep	2,617	420	605	151	3,793	69.0	11.1	16.0	4.0	100.0
Oct	2,599	434	574	154	3,761	69.1	11.5	15.3	4.1	100.0
Nov	2,554	432	607	159	3,752	68.1	11.5	16.2	4.2	100.0
Dec	2,369	397	592	167	3,526	67.2	11.2	16.8	4.8	100.0
YTD	2,435	387	599	143	3,564	68.3	10.9	16.8	4.0	100.0

Remark : Heat Value of NG = 1,000 BTU/SCF
Compiled by : Energy Policy and Planning Office (EPPO)



Energy
of Thailand
2010

APPENDIX I

Chapter 4
LIGNITE/COAL

.....
บทที่ 4
ลิกไนต์/ถ่านหิน

Table 4.1-1M
Production and Consumption of Lignite

Month	2005						2006							
	EGAT		Total EGAT		Others		EGAT		Total EGAT		Others			
	Mae-Moh	Krabi	Production	Consumption	Production	Consumption	Production	Consumption	Production	Consumption	Production	Consumption		
Jan	1,364,823.00	1,315,931.00	1,364,823.00	1,315,931.00	368,582.00	378,338.00	1,733,405.00	1,694,269.00	1,409,844.00	1,331,766.00	292,175.00	286,003.00	1,712,019.00	1,617,769.00
Feb	1,060,069.00	1,176,059.00	1,060,069.00	1,176,059.00	366,505.00	333,008.00	1,426,574.00	1,509,067.00	1,107,546.00	1,145,746.00	300,012.00	317,260.00	1,412,558.00	1,463,006.00
Mar	1,440,744.00	1,497,259.00	1,440,744.00	1,497,259.00	373,020.00	422,566.00	1,813,764.00	1,919,825.00	1,227,563.00	1,280,465.00	364,469.00	359,188.00	1,592,032.00	1,639,653.00
Apr	1,431,334.00	1,414,163.00	1,431,334.00	1,414,163.00	288,047.00	399,774.00	1,719,381.00	1,813,937.00	1,237,717.00	1,295,892.00	247,199.00	251,798.00	1,491,916.00	1,547,690.00
May	1,508,199.00	1,448,408.00	1,508,199.00	1,448,408.00	431,229.00	373,191.00	1,939,428.00	1,821,599.00	1,493,423.00	1,462,749.00	208,923.00	265,773.00	1,702,346.00	1,728,522.00
Jun	1,470,535.00	1,465,835.00	1,474,057.00	1,465,835.00	374,114.00	398,309.00	1,848,172.00	1,864,144.00	1,487,520.00	1,427,571.00	265,313.00	260,844.00	1,757,833.00	1,688,415.00
Jul	1,473,338.00	1,470,438.00	1,481,338.00	1,470,438.00	358,846.00	410,156.00	1,840,184.00	1,880,594.00	1,487,920.00	1,399,882.00	262,688.00	260,006.00	1,643,480.00	1,659,888.00
Aug	1,316,934.00	1,319,759.00	1,321,934.00	1,319,759.00	402,238.00	367,341.00	1,724,172.00	1,687,100.00	1,377,792.00	1,399,882.00	262,688.00	260,006.00	1,643,480.00	1,659,888.00
Sep	1,246,043.00	1,271,340.00	1,251,043.00	1,271,340.00	279,583.00	348,410.00	1,530,626.00	1,619,750.00	1,224,924.00	1,267,918.00	244,693.00	229,731.00	1,469,617.00	1,497,649.00
Oct	1,440,533.00	1,412,917.00	1,440,533.00	1,412,917.00	363,745.00	333,273.00	1,804,278.00	1,746,190.00	1,440,533.00	1,412,917.00	363,745.00	333,273.00	1,804,278.00	1,746,190.00
Nov	1,468,546.00	1,416,933.00	1,473,546.00	1,416,933.00	370,638.00	341,259.00	1,844,184.00	1,758,192.00	1,468,546.00	1,362,049.00	330,966.00	370,123.00	1,654,010.00	1,732,172.00
Dec	1,313,044.00	1,362,049.00	1,323,044.00	1,362,049.00	330,966.00	370,123.00	1,654,010.00	1,732,172.00	16,534,142.00	16,571,091.00	4,307,512.00	4,475,747.00	20,878,176.00	21,046,838.00
YTD	16,534,142.00	16,571,091.00	16,570,664.00	16,571,091.00	4,307,512.00	4,475,747.00	20,878,176.00	21,046,838.00	15,819,798.00	15,815,374.00	3,250,810.00	3,036,746.00	19,070,608.00	18,852,120.00

Table 4.1-1M (Cont.)
Production and Consumption of Lignite

Unit : Tons

Month	2007						2008					
	EGAT			Total EGAT			Others			Whole Kingdom		
	Mae-Moh	Krabi	Others	Production	Consumption	Production	Consumption	Production	Consumption	Production	Consumption	
Jan	1,333,519.00	1,314,931.00	6,000.00	1,339,519.00	1,314,931.00	254,272.00	162,436.00	1,593,791.00	1,477,367.00			
Feb	1,221,321.00	1,209,466.00	10,000.00	1,231,321.00	1,209,466.00	289,481.00	171,839.00	1,520,802.00	1,381,305.00			
Mar	1,294,427.00	1,323,731.00	11,112.00	1,305,539.00	1,323,731.00	272,022.00	173,758.00	1,577,560.00	1,497,489.00			
Apr	1,362,232.00	1,084,906.00		1,362,232.00	1,084,906.00	176,806.00	396,243.00	1,539,038.00	1,481,149.00			
May	1,290,552.00	1,265,741.00		1,290,552.00	1,265,741.00	141,488.00	150,468.00	1,432,040.00	1,416,209.00			
Jun	1,259,365.00	1,281,557.00		1,259,365.00	1,281,557.00	168,950.00	129,667.00	1,428,315.00	1,411,224.00			
Jul	1,569,910.00	1,491,570.00		1,569,910.00	1,491,570.00	207,137.00	141,709.00	1,777,047.00	1,633,279.00			
Aug	1,416,810.00	1,493,135.00		1,416,810.00	1,493,135.00	169,193.00	202,103.00	1,586,003.00	1,695,238.00			
Sep	1,400,167.00	1,381,626.00		1,400,167.00	1,381,626.00	108,334.00	121,568.00	1,508,501.00	1,503,194.00			
Oct	1,247,035.00	1,293,124.00		1,247,035.00	1,293,124.00	76,044.00	202,545.00	1,323,079.00	1,495,669.00			
Nov	1,407,742.00	1,328,185.00		1,407,742.00	1,328,185.00	106,286.00	136,701.00	1,514,028.00	1,464,886.00			
Dec	1,314,729.00	1,343,078.00		1,314,729.00	1,343,078.00	124,243.00	170,342.00	1,438,972.00	1,513,420.00			
YTD	16,117,809.00	15,811,050.00	27,112.00	16,144,921.00	15,811,050.00	2,094,255.00	2,159,379.00	18,239,176.00	17,970,429.00			
Month	2007						2008					
	EGAT			Total EGAT			Others			Whole Kingdom		
	Mae-Moh	Krabi	Others	Production	Consumption	Production	Consumption	Production	Consumption	Production	Consumption	
Jan	1,261,965.00	1,317,911.00		1,261,965.00	1,317,911.00	154,955.00	155,859.00	1,416,920.00	1,473,770.00			
Feb	1,322,581.00	1,291,476.00		1,322,581.00	1,291,476.00	89,760.00	200,731.00	1,412,341.00	1,492,207.00			
Mar	1,301,825.00	1,354,518.00	5,000.00	1,306,825.00	1,354,518.00	145,186.00	238,846.00	1,452,011.00	1,593,364.00			
Apr	1,454,233.00	1,414,483.00		1,454,233.00	1,414,483.00	188,095.00	183,093.00	1,642,328.00	1,597,576.00			
May	1,489,003.00	1,491,436.00		1,494,003.00	1,491,436.00	163,792.00	188,339.00	1,657,795.00	1,679,775.00			
Jun	1,453,387.00	1,372,230.00		1,461,387.00	1,372,230.00	251,406.00	230,523.00	1,712,793.00	1,602,753.00			
Jul	1,227,168.00	1,262,475.00	2,000.00	1,229,168.00	1,262,475.00	216,633.00	191,082.00	1,445,801.00	1,453,557.00			
Aug	1,325,345.00	1,334,370.00	3,248.00	1,328,593.00	1,334,370.00	183,916.00	185,890.00	1,512,510.00	1,520,260.00			
Sep	1,382,595.00	1,386,029.00		1,382,595.00	1,386,029.00	127,742.00	200,477.00	1,510,337.00	1,586,506.00			
Oct	1,328,904.00	1,337,526.00		1,328,904.00	1,337,526.00	106,675.00	180,396.00	1,435,579.00	1,517,922.00			
Nov	1,344,442.00	1,366,674.00		1,344,442.00	1,366,674.00	174,357.00	113,379.00	1,518,799.00	1,480,053.00			
Dec	1,529,399.00	1,478,337.00		1,529,399.00	1,478,337.00	39,872.00	55,472.00	1,569,271.00	1,533,809.00			
YTD	16,420,847.00	16,407,465.00	23,248.00	16,444,095.00	16,407,465.00	1,842,390.00	2,124,087.00	18,286,485.00	18,531,552.00			

Lignite/Cool

Table 4.1-1M (Cont.)
Production and Consumption of Lignite

Month	2009							
	EGAT		Total EGAT		Others		Whole Kingdom	
	Production	Consumption	Production	Consumption	Production	Consumption	Production	Consumption
Jan	1,468,620.00	1,461,488.00	1,468,620.00	1,461,488.00	93,065.00	111,470.00	1,561,685.00	1,572,958.00
Feb	1,174,194.00	1,144,939.00	1,174,194.00	1,144,939.00	138,458.00	157,131.00	1,312,652.00	1,302,070.00
Mar	1,254,630.00	1,255,136.00	1,254,630.00	1,255,136.00	211,163.00	247,544.00	1,465,793.00	1,502,680.00
Apr	1,227,083.00	1,313,460.00	1,227,083.00	1,313,460.00	217,794.00	234,662.00	1,444,877.00	1,548,122.00
May	1,413,339.00	1,370,259.00	1,413,339.00	1,370,259.00	154,931.00	183,435.00	1,568,270.00	1,553,694.00
Jun	1,435,227.00	1,463,154.00	1,435,227.00	1,463,154.00	177,569.00	194,639.00	1,612,796.00	1,657,793.00
Jul	1,469,759.00	1,451,536.00	1,469,759.00	1,451,536.00	178,411.00	165,359.00	1,648,170.00	1,616,895.00
Aug	1,279,005.00	1,304,125.00	1,279,005.00	1,304,125.00	217,282.00	179,357.00	1,496,287.00	1,483,482.00
Sep	1,254,357.00	1,243,891.00	1,254,357.00	1,243,891.00	125,811.00	134,061.00	1,380,168.00	1,377,952.00
Oct	1,143,009.00	1,287,741.00	1,143,009.00	1,287,741.00	109,720.00	41,449.00	1,252,729.00	1,329,190.00
Nov	1,237,910.00	1,227,355.00	1,237,910.00	1,227,355.00	115,830.00	193,949.00	1,353,740.00	1,421,304.00
Dec	1,274,633.00	1,295,181.00	1,274,633.00	1,295,181.00	194,300.00	199,472.00	1,468,933.00	1,494,653.00
YTD	15,631,766.00	15,818,265.00	15,631,766.00	15,818,265.00	1,934,334.00	2,042,529.00	17,566,100.00	17,860,794.00

Source : Department of Primary Industries and Mines

Table 4.2-1M
Coal Import

Unit : 1,000 Tons

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
1986	3.55	28.49	4.75	26.87	15.12	17.70	7.85	8.50	7.95	43.93	46.35	10.64	221.70
1987	1.17	45.04	4.60	9.46	46.95	11.74	84.28	2.71	2.85	14.05	37.59	51.06	311.50
1988	40.27	24.62	52.48	56.06	49.08	13.15	39.53	3.87	5.54	48.12	9.86	18.51	361.08
1989	56.28	48.50	58.45	21.67	33.66	84.22	24.55	57.03	8.52	10.49	21.68	29.99	455.03
1990	21.00	19.09	31.75	7.13	56.19	54.10	10.37	21.95	25.80	7.45	22.06	64.01	340.90
1991	13.52	13.68	24.58	42.49	83.88	69.06	68.24	1.75	15.39	45.05	10.77	81.02	469.42
1992	0.90	31.60	140.89	8.40	0.78	8.85	75.47	54.80	32.96	43.03	9.36	93.83	500.85
1993	193.78	6.62	116.58	31.72	82.90	74.63	59.03	59.12	117.03	42.81	31.82	119.72	935.76
1994	137.83	70.65	39.54	99.37	168.57	130.76	162.35	163.51	111.79	155.01	140.90	138.93	1,519.21
1995	165.00	21.95	295.16	69.94	170.79	241.18	145.36	362.27	179.53	255.87	233.94	206.17	2,347.16
1996	127.96	87.99	180.88	313.03	313.71	481.60	333.40	382.72	397.35	256.60	510.80	519.79	3,905.84
1997	395.31	330.01	397.77	469.03	368.50	287.43	235.44	130.11	140.33	172.19	157.60	205.06	3,288.78
1998	33.59	50.22	47.16	61.23	116.34	158.75	134.79	193.28	133.01	255.77	247.60	201.23	1,632.98
1999	169.81	330.24	57.55	445.49	306.13	272.05	378.92	323.15	430.93	122.11	368.46	73.09	3,277.93
2000	378.32	325.88	132.41	353.40	382.56	390.15	378.13	467.09	420.24	248.30	236.71	470.02	4,183.20
2001	355.10	472.44	463.02	398.42	212.06	466.24	581.70	459.61	276.19	411.67	524.51	324.24	4,945.21
2002	428.95	325.34	471.01	397.53	386.63	455.33	618.43	394.41	475.20	582.29	594.79	468.92	5,598.84
2003	553.82	868.90	675.68	567.41	587.78	520.46	445.63	575.64	583.64	648.67	618.66	464.13	7,110.44
2004	426.58	419.12	353.70	617.44	654.58	497.82	764.34	596.09	679.98	854.35	652.34	1,033.61	7,549.95
2005	709.09	673.49	655.33	706.58	887.05	766.11	441.86	974.44	696.93	555.24	871.68	630.50	8,568.29
2006	678.58	665.24	965.31	684.08	1,118.73	1,090.71	553.04	1,040.25	1,130.49	1,110.90	1,132.69	1,044.78	11,214.80
2007	1,025.09	888.19	1,087.64	1,107.51	1,316.80	1,206.18	1,131.10	1,674.78	1,272.50	1,114.67	1,334.85	1,254.49	14,413.80
2008	1,309.80	1,483.34	1,322.24	1,536.05	1,510.23	1,245.74	1,363.82	1,252.98	1,310.96	1,383.52	1,008.61	1,251.71	15,979.00
2009	893.98	1,136.57	1,320.59	1,590.73	1,465.03	1,234.67	1,554.50	1,448.91	1,678.14	2,043.75	847.68	1,174.29	16,388.84

Source: The Customs Department
Compiled by: Energy Policy and Planning Office (EPPO)

Chapter 5 ELECTRICITY

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บทที่ 5
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Table 5.1-1M
Electricity Generation by Fuel Type

Unit : GWh

2005												
Month	Hydro	Fuel Oil	Lignite	Natural Gas	Diesel	Geo Thermal	Non Conventional	Imported	DEDP	SPP	IPP	Total
Jan	574.42	200.44	1,450.87	2,416.07	11.08	0.14	0.08	234.06	1.44	1,110.94	4,227.95	10,227.56
Feb	634.71	582.83	1,279.10	2,348.29	26.31	0.09	0.07	193.95	1.32	972.29	4,322.44	10,361.43
Mar	635.74	728.44	1,657.57	2,971.17	9.49	0.10	0.07	304.43	1.67	1,149.41	4,415.17	11,873.31
Apr	558.81	857.62	1,540.99	2,561.92	42.59	0.06	0.06	311.01	0.96	986.54	4,440.56	11,301.17
May	571.58	832.46	1,616.74	3,140.06	36.85	0.10	0.06	282.50	0.86	1,119.51	4,752.71	12,353.48
Jun	427.05	679.48	1,652.02	2,841.51	5.14	0.12	0.05	409.14	0.56	1,197.83	4,424.28	11,637.23
Jul	338.34	620.76	1,615.96	2,873.52	2.19	0.12	0.08	434.84	0.58	1,188.94	4,344.24	11,419.61
Aug	272.30	629.35	1,500.55	2,818.60	3.58	0.13	0.06	489.88	2.50	1,211.61	4,541.85	11,470.47
Sep	285.24	839.36	1,390.50	2,911.41	30.45	0.14	0.07	493.77	3.42	1,169.50	4,126.29	11,250.18
Oct	382.63	928.08	1,520.69	2,661.61	5.49	0.13	0.06	376.63	2.02	1,145.72	4,522.76	11,545.86
Nov	452.16	379.14	1,574.17	2,841.79	1.79	0.13	0.05	440.68	1.06	1,119.64	4,213.14	11,023.81
Dec	538.14	361.98	1,535.29	2,678.84	1.85	0.13	0.05	400.92	0.97	1,174.61	3,641.20	10,334.03
YTD	5,671.18	7,640.00	18,334.50	33,064.85	176.84	1.45	0.81	4,371.88	17.40	13,546.61	51,972.64	134,798.19
2006												
Month	Hydro	Fuel Oil	Lignite	Natural Gas	Diesel	Geo Thermal	Non Conventional	Imported	DEDP	SPP	IPP	Total
Jan	629.12	540.66	1,484.49	2,254.35	3.39	0.17	0.08	377.45	1.75	1,161.36	4,303.94	10,756.79
Feb	683.33	1,270.99	1,290.79	2,198.79	10.86	0.10	0.07	366.69	2.05	996.48	3,948.54	10,768.74
Mar	756.24	1,014.86	1,484.43	3,231.31	37.42	0.11	0.07	449.85	3.09	1,175.93	4,566.68	12,720.03
Apr	661.97	807.62	1,526.33	2,745.87	9.97	0.08	0.06	409.01	4.28	1,035.71	4,426.53	11,627.46
May	535.93	857.59	1,664.34	3,349.25	3.29	0.06	0.07	294.48	3.32	1,107.26	4,620.75	12,436.40
Jun	516.00	1,119.11	1,623.22	3,087.67	2.35	0.14	0.04	437.64	3.08	1,074.10	4,317.26	12,180.66
Jul	541.74	971.08	1,564.49	2,876.77	1.05	0.16	0.08	496.19	5.38	1,151.35	4,664.16	12,272.51
Aug	667.71	590.26	1,438.21	2,693.02	2.42	0.15	0.05	511.42	9.12	1,199.59	5,121.17	12,233.18
Sep	705.98	284.05	1,529.24	2,840.97	3.81	0.16	0.06	505.98	4.29	1,188.41	4,822.16	11,885.17
Oct	846.20	134.35	1,498.48	3,079.06	0.60	0.17	0.07	434.08	6.27	1,203.28	4,805.99	12,008.61
Nov	663.12	117.82	1,433.30	3,010.77	0.70	0.17	0.06	478.71	0.84	1,098.81	5,120.96	11,925.30
Dec	742.66	99.99	1,490.32	2,594.78	0.99	0.18	0.07	390.29	1.26	1,138.62	4,644.46	11,103.64
YTD	7,950.05	7,808.44	18,027.67	33,962.66	76.92	1.72	0.84	5,151.85	44.79	13,530.95	55,362.65	141,918.56

Electricity

Table 5.1-1M (Cont.)
Electricity Generation by Fuel Type

Unit : GWh

2007												
Month	Hydro	Fuel Oil	Lignite	Natural Gas	Diesel	Geo Thermal	Non Conventional	Imported	DEDP	SPP	IPP	Total
Jan	754.10	18.64	1,508.21	2,526.78	2.13	0.17	0.07	335.49	1.91	1,233.28	4,878.51	11,259.34
Feb	777.03	106.55	1,466.15	2,591.38	1.91	0.13	0.07	278.82	1.71	1,119.12	4,560.37	10,903.29
Mar	844.96	265.50	1,614.99	3,502.21	1.26	0.10	0.08	386.00	3.84	1,259.96	5,383.24	13,262.19
Apr	732.70	291.31	1,539.22	3,274.42	4.93	0.14	0.06	365.27	3.72	1,112.60	4,890.08	12,214.49
May	540.52	203.60	1,467.99	3,578.15	1.96	0.13	0.05	400.03	2.49	1,232.32	5,235.26	12,662.56
Jun	677.78	273.56	1,485.00	3,262.86	2.51	0.14	0.06	333.76	2.41	1,245.19	5,484.35	12,767.67
Jul	705.67	29.88	1,645.91	3,220.13	2.81	0.15	0.06	422.91	1.15	1,180.70	5,367.56	12,576.97
Aug	644.38	429.53	1,674.06	3,061.95	2.44	0.15	0.08	335.65	1.15	1,210.11	5,375.00	12,734.56
Sep	530.34	236.87	1,553.22	3,459.04	1.08	0.15	0.06	273.48	0.79	1,200.90	5,463.81	12,719.79
Oct	439.72	436.82	1,493.90	2,796.67	2.11	0.17	0.05	502.59	0.77	1,236.83	5,569.63	12,479.29
Nov	552.93	221.46	1,532.52	2,683.91	1.81	0.18	0.05	435.94	0.75	1,189.48	4,959.74	11,578.81
Dec	761.18	452.78	1,516.45	2,544.13	3.23	0.17	0.07	418.36	0.97	1,218.90	4,950.60	11,866.89
YTD	7,961.35	2,966.57	18,497.67	36,501.68	28.23	1.83	0.80	4,488.35	21.70	14,439.45	62,118.21	147,025.89
2008												
Month	Hydro	Fuel Oil	Lignite	Natural Gas	Diesel	Geo Thermal	Non Conventional	Imported	DEDP	SPP	IPP	Total
Jan	739.38	2.54	1,504.67	2,644.43	2.05	0.12	0.06	342.25	1.80	1,280.14	5,363.75	11,881.10
Feb	714.01	95.98	1,472.24	2,441.37	1.32	0.12	0.06	170.17	2.14	1,155.92	5,477.56	11,530.95
Mar	823.86	449.24	1,537.81	2,741.85	2.63	0.11	0.07	152.47	3.74	1,231.51	6,344.41	13,287.76
Apr	824.42	341.43	1,623.50	3,002.93	5.97	0.08	0.05	260.31	3.55	1,159.36	5,370.33	12,591.95
May	542.47	91.78	1,693.16	3,345.53	1.01	0.10	0.05	167.29	1.15	1,172.51	6,042.77	13,057.87
Jun	530.02	4.28	1,573.29	3,209.43	1.81	0.13	0.05	227.36	1.12	1,057.22	6,179.88	12,784.63
Jul	520.52	1.71	1,426.75	3,515.10	1.42	0.13	0.05	275.81	3.12	1,156.32	6,169.54	13,070.50
Aug	436.71	1.29	1,528.56	3,528.01	1.29	0.14	0.05	271.38	3.12	1,176.01	6,092.15	13,038.75
Sep	388.36	1.79	1,557.74	3,154.20	1.79	0.13	0.07	327.00	3.69	1,168.49	5,770.06	12,373.38
Oct	376.44		1,526.44	3,419.39	1.28	0.13	0.06	268.44	2.85	1,211.22	5,911.31	12,717.60
Nov	428.33		1,558.82	3,149.15	1.29	0.10	0.06	183.02	1.26	1,140.68	4,884.89	11,347.64
Dec	626.11		1,676.25	3,109.54	1.37	0.09	0.06	138.02	1.16	1,127.00	3,859.10	10,538.74
YTD	6,950.69	990.08	18,679.29	37,260.97	23.28	1.30	0.70	2,783.57	28.77	14,036.43	67,465.82	148,220.93

Table 5.1-1M (Cont.)
Electricity Generation by Fuel Type

Unit : GWh

Month	2009											Total
	Hydro	Fuel Oil	Lignite	Natural Gas	Diesel	Geo Thermal	Non Conventional	Imported	DEDP	SPP	IPP	
Jan	742.81	33.27	1,640.53	2,622.14	1.24	0.09	0.06	171.11	1.47	1,175.62	4,020.95	10,409.34
Feb	715.34		1,308.97	2,833.02	1.01	0.14	0.06	106.09	2.07	1,028.56	5,098.89	11,094.18
Mar	810.43		1,467.57	3,782.28	12.90	0.09	0.06	130.43	3.84	1,247.76	5,444.00	12,899.41
Apr	718.98		1,484.73	3,738.41	8.24	0.03	0.05	108.28	3.70	1,131.85	4,970.90	12,165.21
May	539.55	1.74	1,526.55	3,884.36	6.78	0.03	0.01	147.44	2.26	1,149.93	5,523.26	12,781.95
Jun	367.89	7.27	1,596.28	3,511.53	1.16	0.09	0.02	182.69	1.49	1,210.22	5,793.66	12,672.35
Jul	368.54	1.86	1,619.79	3,501.53	1.94	0.13	0.01	236.85	2.24	1,163.26	5,907.05	12,803.25
Aug	584.43	149.59	1,465.13	3,282.64	0.43	0.14	0.31	275.08	1.87	1,114.68	6,283.35	13,157.69
Sep	391.91	3.42	1,414.31	3,542.13	2.91	0.14	0.30	205.87	1.04	1,150.22	6,039.65	12,751.94
Oct	476.09	181.21	1,447.91	3,713.20	1.80	0.15	0.14	273.76	1.68	1,161.96	5,854.99	13,112.93
Nov	516.94	30.56	1,423.55	3,633.83	2.79	0.16	0.45	336.00	1.12	1,160.03	5,171.54	12,277.02
Dec	732.77	39.28	1,526.71	3,715.89	3.82	0.17	0.34	277.76	1.21	1,207.95	4,732.41	12,238.36
YTD	6,965.73	448.23	17,922.09	41,761.01	45.07	1.40	1.86	2,451.41	24.03	13,902.10	64,840.70	148,363.67

Source : EGAT

Remark : Power Generation from NG and Diesel Oil Not Include REGCO'S Generation Since Dec, 1994

Table 5.1-2M
Electricity Generation Classified by Fuel Type

Unit : GWh

2005								
Month	Hydro Electricity	Fuel Oil	Coal & Lignite	Natural Gas	Diesel	Imported	Others	Total
Jan	574.4	200.5	1,649.3	7,271.0	11.1	234.1	287.1	10,227.6
Feb	634.7	582.8	1,405.5	7,351.1	26.3	194.0	167.1	10,361.4
Mar	635.8	728.5	1,798.2	8,215.2	9.5	304.4	181.8	11,873.3
Apr	558.8	857.6	1,706.6	7,676.5	42.6	311.0	148.1	11,301.2
May	571.6	832.5	1,766.8	8,709.4	36.9	282.5	153.9	12,353.5
Jun	427.1	679.5	1,859.8	8,117.1	5.2	409.2	139.5	11,637.2
Jul	338.3	620.8	1,833.9	8,047.3	2.2	434.9	142.7	11,419.6
Aug	272.3	629.4	1,733.9	8,202.3	3.6	489.9	139.4	11,470.5
Sep	285.3	839.4	1,605.4	7,867.0	30.5	493.8	129.0	11,250.2
Oct	382.6	928.1	1,708.6	8,025.5	5.5	376.6	118.9	11,545.9
Nov	452.2	379.2	1,778.0	7,866.0	1.8	440.7	106.0	11,023.8
Dec	538.2	362.0	1,768.4	7,119.4	1.9	400.9	143.4	10,334.0
Total	5,671.2	7,640.0	20,614.3	94,467.7	176.9	4,371.9	1,856.8	134,798.2

2006								
Month	Hydro Electricity	Fuel Oil	Coal & Lignite	Natural Gas	Diesel	Imported	Others	Total
Jan	629.1	540.7	1,681.5	7,335.7	3.4	377.5	189.1	10,756.8
Feb	683.3	1,271.0	1,458.1	6,814.0	10.9	366.7	164.8	10,768.7
Mar	756.2	1,014.9	1,676.4	8,573.1	37.4	449.9	212.2	12,720.0
Apr	662.0	807.6	1,731.9	7,827.5	10.0	409.0	179.4	11,627.5
May	535.9	857.6	2,043.9	8,544.2	3.3	294.5	157.1	12,436.4
Jun	516.0	1,119.1	1,998.4	7,985.8	2.4	437.6	121.4	12,180.7
Jul	541.7	971.1	2,010.5	8,069.5	1.1	496.2	182.4	12,272.5
Aug	667.7	590.3	2,209.8	8,061.0	2.4	511.4	190.5	12,233.2
Sep	706.0	284.1	2,344.4	7,872.1	3.8	506.0	168.9	11,885.2
Oct	846.2	134.4	2,476.2	7,950.2	0.6	434.1	167.0	12,008.6
Nov	663.1	117.8	2,503.1	8,019.4	0.7	478.7	142.5	11,925.3
Dec	742.7	100.0	2,334.3	7,345.4	1.0	390.3	190.0	11,103.7
Total	7,950.1	7,808.4	24,468.4	94,397.9	76.9	5,151.9	2,065.2	141,918.6

2007								
Month	Hydro Electricity	Fuel Oil	Coal & Lignite	Natural Gas	Diesel	Imported	Others	Total
Jan	754.1	18.6	2,587.9	7,309.7	2.1	335.5	251.4	11,259.3
Feb	777.0	106.6	2,481.5	7,037.5	1.9	278.8	220.0	10,903.3
Mar	845.0	265.5	2,679.4	8,774.2	1.3	386.0	310.8	13,262.2
Apr	732.7	291.3	2,587.1	7,998.3	4.9	365.3	234.9	12,214.5
May	540.5	203.6	2,613.4	8,678.4	2.0	400.0	224.7	12,662.6
Jun	677.8	273.6	2,656.6	8,621.0	2.5	333.8	202.5	12,767.7
Jul	705.7	29.9	2,759.5	8,454.7	2.8	422.9	201.5	12,577.0
Aug	644.4	429.5	2,579.9	8,550.4	2.5	335.7	192.3	12,734.6
Sep	530.4	236.9	2,685.2	8,815.1	1.1	273.5	177.7	12,719.8
Oct	439.7	436.8	2,644.3	8,273.5	2.1	502.6	180.2	12,479.3
Nov	552.9	221.5	2,368.2	7,846.6	1.8	436.0	151.9	11,578.8
Dec	761.2	452.8	2,238.2	7,788.4	3.2	418.4	204.8	11,866.9
Total	7,961.4	2,966.6	30,881.1	98,147.7	28.2	4,488.4	2,552.6	147,025.9

Table 5.1-2M (Cont.)
Electricity Generation Classified by Fuel Type

Unit : GWh

2008								
Month	Hydro Electricity	Fuel Oil	Coal & Lignite	Natural Gas	Diesel	Imported	Others	Total
Jan	739.4	2.5	2,623.6	7,945.4	2.1	342.3	225.9	11,881.1
Feb	714.0	96.0	2,533.5	7,811.9	1.3	170.2	204.1	11,531.0
Mar	823.9	449.2	2,698.2	8,950.0	2.6	152.5	211.4	13,287.8
Apr	824.4	341.4	2,780.0	8,180.2	6.0	260.3	199.6	12,592.0
May	542.5	91.8	2,730.9	9,338.3	1.0	167.3	186.1	13,057.9
Jun	530.0	4.3	2,603.6	9,238.9	1.8	227.4	178.6	12,784.6
Jul	520.5	1.7	2,447.6	9,637.2	1.4	275.8	186.3	13,070.5
Aug	436.7	1.3	2,514.8	9,635.6	1.3	271.4	177.7	13,038.8
Sep	388.4	1.8	2,581.8	8,893.3	1.8	327.0	179.3	12,373.4
Oct	376.5		2,593.8	9,299.2	1.3	268.5	178.4	12,717.6
Nov	428.3		2,374.2	8,217.3	1.3	183.0	143.4	11,347.6
Dec	626.1		2,261.6	7,332.8	1.4	138.0	178.9	10,538.8
Total	6,950.7	990.1	30,743.4	104,480.1	23.3	2,783.6	2,249.8	148,220.9

2009								
Month	Hydro Electricity	Fuel Oil	Coal & Lignite	Natural Gas	Diesel	Imported	Others	Total
Jan	742.8	33.3	2,688.5	6,567.2	1.3	171.1	205.2	10,409.3
Feb	715.4		2,280.6	7,660.0	1.0	106.1	331.1	11,094.2
Mar	810.4		2,585.0	9,127.6	12.9	130.4	233.1	12,899.4
Apr	719.0		2,579.3	8,548.4	8.2	108.3	202.0	12,165.2
May	539.6	1.7	2,623.5	9,271.4	6.8	147.5	191.6	12,782.0
Jun	367.9	7.3	2,664.2	9,228.8	1.2	182.7	220.3	12,672.4
Jul	368.5	1.9	2,734.5	9,217.7	1.9	236.9	241.8	12,803.3
Aug	584.4	149.6	2,547.8	9,376.2	0.4	275.1	224.1	13,157.7
Sep	391.9	3.4	2,485.6	9,441.6	2.9	205.9	219.5	12,752.0
Oct	476.1	181.2	2,281.2	9,690.2	1.8	273.8	208.7	13,112.9
Nov	517.0	30.6	2,143.1	9,042.4	2.8	336.0	200.9	12,277.0
Dec	732.8	39.3	2,194.9	8,758.3	3.8	277.8	231.5	12,238.4
Total	6,965.7	448.2	29,808.1	105,929.9	45.1	2,451.4	2,709.8	148,363.7

Source : EGAT

Electricity

Table 5.1-3M
Peak, Demand and Load Factor

2005			
Month	Peak (MW)	Generation (GWh)	Load Factor (%)
Jan	18,261	10,228	75.3
Feb	18,940	10,361	81.4
Mar	20,222	11,873	78.9
Apr	20,538	11,301	76.4
May	20,537	12,353	80.9
Jun	19,238	11,637	84.0
Jul	18,960	11,420	81.0
Aug	19,039	11,470	81.0
Sep	18,776	11,250	83.2
Oct	18,759	11,546	82.7
Nov	19,092	11,024	80.2
Dec	18,450	10,334	75.3
Total	20,538	134,798	74.9

2006			
Month	Peak (MW)	Generation (GWh)	Load Factor (%)
Jan	18,879	10,757	76.6
Feb	19,696	10,769	81.4
Mar	20,745	12,720	82.4
Apr	20,531	11,627	78.7
May	21,064	12,436	79.4
Jun	20,439	12,181	82.8
Jul	20,040	12,273	82.3
Aug	19,870	12,233	82.8
Sep	20,214	11,885	81.7
Oct	20,052	12,009	80.5
Nov	20,444	11,925	81.0
Dec	20,092	11,104	74.3
Total	21,064	141,919	76.9

2007			
Month	Peak (MW)	Generation (GWh)	Load Factor (%)
Jan	19,755	11,259	76.6
Feb	20,593	10,903	78.8
Mar	22,161	13,262	80.4
Apr	22,586	12,214	75.1
May	21,234	12,663	80.2
Jun	21,555	12,768	82.3
Jul	20,396	12,577	82.9
Aug	20,853	12,735	82.1
Sep	21,063	12,720	83.9
Oct	20,594	12,479	81.4
Nov	20,483	11,579	78.5
Dec	20,958	11,867	76.1
Total	22,586	147,026	74.3

**Table 5.1-3M (Cont.)
Peak, Demand and Load Factor**

2008			
Month	Peak (MW)	Generation (GWh)	Load Factor (%)
Jan	20,733	11,881	77.0
Feb	20,708	11,531	80.0
Mar	22,122	13,288	80.7
Apr	22,568	12,592	77.5
May	21,610	13,058	81.2
Jun	21,396	12,785	83.0
Jul	21,489	13,071	81.8
Aug	21,590	13,054	81.3
Sep	21,014	12,401	82.0
Oct	20,711	12,718	82.5
Nov	20,201	11,348	78.0
Dec	18,394	10,539	77.0
Total	22,568	148,264	74.8

2009			
Month	Peak* (MW)	Generation (GWh)	Load Factor (%)
Jan	19,082	10,409	73.3
Feb	21,301	11,094	77.5
Mar	21,851	12,899	79.3
Apr	22,596	12,165	74.8
May	21,366	12,782	80.4
Jun	21,361	12,672	82.4
Jul	21,141	12,812	81.5
Aug	21,766	13,158	81.2
Sep	21,444	12,752	82.6
Oct	21,585	13,113	81.7
Nov	22,380	12,277	76.2
Dec	21,505	12,238	76.5
Total	22,596	148,372	75.0

Source : EGAT

*Note : Estimate

Table 5.1-4M
EGAT Purchase from SPP

Unit : GWh

2005				
Month	Natural Gas	Coal / Lignite	Renewable Energy	Total
Jan	626.97	198.43	285.48	1,110.88
Feb	680.33	126.39	165.56	972.28
Mar	828.82	140.62	179.98	1,149.42
Apr	673.97	165.60	146.98	986.55
May	816.58	150.06	152.88	1,119.52
Jun	851.35	207.77	138.72	1,197.84
Jul	829.49	217.94	141.91	1,189.34
Aug	841.84	233.34	136.66	1,211.84
Sep	829.27	214.92	125.32	1,169.51
Oct	841.14	187.89	116.69	1,145.72
Nov	811.07	203.79	104.79	1,119.65
Dec	799.31	233.07	142.24	1,174.61
YTD	9,430.12	2,279.80	1,837.21	13,547.14

2006				
Month	Natural Gas	Coal / Lignite	Renewable Energy	Total
Jan	777.35	196.95	187.06	1,161.36
Feb	666.65	167.31	162.53	996.49
Mar	775.08	191.94	208.92	1,175.93
Apr	708.22	152.54	174.96	1,035.71
May	725.38	228.35	153.54	1,107.27
Jun	805.43	150.56	118.11	1,074.10
Jul	759.87	214.71	176.78	1,151.36
Aug	747.61	270.83	181.16	1,199.60
Sep	815.76	208.30	164.36	1,188.41
Oct	821.39	221.44	160.47	1,203.29
Nov	747.43	209.95	141.43	1,098.81
Dec	777.85	172.27	188.51	1,138.62
YTD	9,128.00	2,385.14	2,017.81	13,530.95

2007				
Month	Natural Gas	Coal / Lignite	Renewable Energy	Total
Jan	799.78	184.25	249.25	1,233.29
Feb	754.06	146.97	218.10	1,119.13
Mar	831.09	122.12	306.76	1,259.97
Apr	747.36	134.25	230.99	1,112.60
May	815.51	194.82	222.00	1,232.32
Jun	790.41	254.95	199.84	1,245.20
Jul	811.02	169.58	200.11	1,180.70
Aug	827.49	191.76	190.87	1,210.12
Sep	811.90	212.36	176.65	1,200.90
Oct	851.66	205.95	179.22	1,236.83
Nov	828.17	210.44	150.88	1,189.49
Dec	815.06	200.27	203.58	1,218.91
YTD	9,683.50	2,227.71	2,528.24	14,439.45

**Table 5.1-4M (Cont.)
EGAT Purchase from SPP**

Unit : GWh

2008				
Month	Natural Gas	Coal / Lignite	Renewable Energy	Total
Jan	842.02	214.11	224.01	1,280.14
Feb	786.45	167.75	201.72	1,155.93
Mar	836.20	187.88	207.44	1,231.52
Apr	763.89	199.48	196.00	1,159.37
May	811.44	176.26	184.82	1,172.52
Jun	777.11	102.80	177.32	1,057.22
Jul	814.87	158.47	182.99	1,156.32
Aug	858.08	143.55	174.38	1,176.01
Sep	822.91	170.16	175.43	1,168.50
Oct	847.97	187.87	175.39	1,211.22
Nov	822.88	175.81	141.99	1,140.68
Dec	817.70	131.78	177.54	1,127.01
YTD	9,801.51	2,015.89	2,219.03	14,036.43

2009				
Month	Natural Gas	Coal / Lignite	Renewable Energy	Total
Jan	820.20	151.87	203.57	1,175.63
Feb	586.76	112.93	328.87	1,028.56
Mar	851.90	166.77	229.10	1,247.77
Apr	739.59	194.11	198.16	1,131.86
May	814.82	145.86	189.26	1,149.94
Jun	821.13	170.37	218.73	1,210.23
Jul	759.25	164.62	239.40	1,163.26
Aug	776.08	116.78	221.82	1,114.68
Sep	784.43	146.60	217.97	1,149.00
Oct	802.15	153.13	206.68	1,161.96
Nov	791.21	165.34	199.16	1,155.70
Dec	798.69	179.48	229.79	1,207.96
YTD	9,346.21	1,867.85	2,682.49	13,896.54

Source : EGAT

Compiled by : Energy Policy and Planning Office (EPPO)

Table 5.1-5M
EGAT Purchase from IPP

Unit : GWh

2005			
Month	Natural Gas	Coal / Lignite	Total
Jan	4,227.96		4,227.96
Feb	4,322.44		4,322.44
Mar	4,415.17		4,415.17
Apr	4,440.57		4,440.57
May	4,510.04		4,510.04
Jun	4,424.28		4,424.28
Jul	4,344.25		4,344.25
Aug	4,541.85		4,541.85
Sep	4,126.30		4,126.30
Oct	4,522.77		4,522.77
Nov	4,213.14		4,213.14
Dec	3,641.21		3,641.21
YTD	51,729.97		51,729.97

2006			
Month	Natural Gas	Coal / Lignite	Total
Jan	4,303.94		4,303.94
Feb	3,948.55		3,948.55
Mar	4,566.68		4,566.68
Apr	4,373.45	53.08	4,426.53
May	4,469.56	151.20	4,620.76
Jun	4,092.69	224.57	4,317.26
Jul	4,432.82	231.35	4,664.17
Aug	4,620.41	500.77	5,121.17
Sep	4,215.31	606.85	4,822.16
Oct	4,049.74	756.26	4,806.00
Nov	4,261.18	859.78	5,120.96
Dec	3,972.76	671.71	4,644.46
YTD	51,307.08	4,055.56	55,362.65

2007			
Month	Natural Gas	Coal / Lignite	Total
Jan	3,983.09	895.42	4,878.51
Feb	3,692.02	868.35	4,560.37
Mar	4,440.95	942.30	5,383.25
Apr	3,976.48	913.61	4,890.09
May	4,284.72	950.55	5,235.27
Jun	4,567.69	916.67	5,484.36
Jul	4,423.51	944.05	5,367.56
Aug	4,660.98	714.03	5,375.01
Sep	4,544.16	919.66	5,463.82
Oct	4,625.24	944.40	5,569.63
Nov	4,334.51	625.24	4,959.75
Dec	4,429.16	521.45	4,950.60
YTD	51,962.49	10,155.73	62,118.21

Table 5.1-5M (Cont.)
EGAT Purchase from IPP

Unit : GWh

2008			
Month	Natural Gas	Coal / Lignite	Total
Jan	4,458.95	904.81	5,363.75
Feb	4,584.09	893.47	5,477.56
Mar	5,371.89	972.53	6,344.42
Apr	4,413.31	957.03	5,370.34
May	5,181.33	861.45	6,042.78
Jun	5,252.40	927.48	6,179.89
Jul	5,256.34	913.20	6,169.55
Aug	5,249.52	842.64	6,092.15
Sep	4,916.23	853.84	5,770.07
Oct	5,031.84	879.48	5,911.32
Nov	4,201.94	682.95	4,884.89
Dec	3,405.54	453.57	3,859.11
YTD	57,323.36	10,142.45	67,465.82

2009			
Month	Natural Gas	Coal / Lignite	Total
Jan	2,647.62	896.07	3,543.68
Feb	4,240.18	858.71	5,098.89
Mar	4,493.39	950.61	5,444.00
Apr	4,070.42	900.48	4,970.90
May	4,572.15	951.12	5,523.27
Jun	4,896.15	897.52	5,793.66
Jul	4,956.94	950.12	5,907.06
Aug	5,317.50	965.86	6,283.36
Sep	5,115.03	924.63	6,039.65
Oct	5,174.85	680.14	5,854.99
Nov	4,617.35	554.19	5,171.54
Dec	4,243.75	488.67	4,732.42
YTD	54,345.31	10,018.13	64,363.43

Source : EGAT

Compiled by : Energy Policy and Planning Office (EPPO)

Table 5.2-1M
Electricity Consumption in MEA Service Areas

Unit : GWh

2005					
Month	Residential	Business	Industry	Others	Total
Jan	570.94	1,040.77	1,178.91	169.41	2,960.03
Feb	670.53	1,062.04	1,203.00	172.87	3,108.44
Mar	735.68	1,199.46	1,358.66	195.24	3,489.04
Apr	830.59	1,117.56	1,265.89	181.91	3,395.95
May	860.16	1,225.55	1,388.21	199.48	3,673.40
Jun	789.12	1,211.63	1,372.44	197.22	3,570.41
Jul	737.31	1,159.76	1,313.69	188.78	3,399.54
Aug	729.35	1,169.58	1,324.82	190.37	3,414.12
Sep	732.08	1,166.93	1,321.81	189.94	3,410.76
Oct	719.50	1,160.07	1,314.04	188.83	3,382.44
Nov	675.22	1,135.49	1,286.20	184.82	3,281.73
Dec	586.89	1,062.04	1,203.00	172.87	3,024.80
YTD	8,637.37	13,710.88	15,530.67	2,231.74	40,110.66

2006					
Month	Residential	Business	Industry	Others	Total
Jan	611.73	1,066.88	1,208.48	173.66	3,060.75
Feb	684.67	1,081.41	1,224.94	176.02	3,167.04
Mar	818.88	1,264.41	1,432.23	205.81	3,721.33
Apr	834.28	1,121.56	1,270.42	182.56	3,408.82
May	811.53	1,229.78	1,393.01	200.17	3,634.49
Jun	788.96	1,212.58	1,373.52	197.37	3,572.43
Jul	766.34	1,220.34	1,382.31	198.64	3,567.63
Aug	766.85	1,215.76	1,377.12	197.89	3,557.62
Sep	772.81	1,194.82	1,353.41	194.48	3,515.52
Oct	745.37	1,198.93	1,358.06	195.15	3,497.51
Nov	781.77	1,206.66	1,366.82	196.41	3,551.66
Dec	695.96	1,102.83	1,249.20	179.51	3,227.50
YTD	9,079.15	14,115.96	15,989.52	2,297.67	41,482.30

2007					
Month	Residential	Business	Industry	Others	Total
Jan	604.39	1,093.51	1,238.65	177.99	3,114.54
Feb	674.37	1,073.29	1,215.74	174.70	3,138.10
Mar	852.07	1,276.98	1,446.47	207.86	3,783.38
Apr	859.27	1,160.79	1,314.85	188.94	3,523.85
May	830.26	1,239.81	1,404.36	201.80	3,676.23
Jun	873.03	1,262.58	1,430.15	205.51	3,771.27
Jul	782.47	1,223.40	1,385.78	199.13	3,590.78
Aug	800.72	1,232.56	1,396.15	200.63	3,630.06
Sep	811.44	1,221.49	1,383.61	198.82	3,615.36
Oct	766.53	1,213.45	1,374.51	197.51	3,552.00
Nov	691.96	1,156.64	1,310.16	188.27	3,347.03
Dec	683.89	1,136.52	1,287.37	184.99	3,292.77
YTD	9,230.40	14,291.02	16,187.80	2,326.15	42,035.37

Table 5.2-1M (Cont.)
Electricity Consumption in MEA Service Areas

Unit : GWh

2008					
Month	Residential	Business	Industry	Others	Total
Jan	707.48	1,164.27	1,318.80	189.51	3,380.06
Feb	715.97	1,134.92	1,285.56	184.73	3,321.18
Mar	805.01	1,266.40	1,434.48	206.13	3,712.02
Apr	900.30	1,178.67	1,335.11	191.85	3,605.93
May	845.24	1,265.44	1,433.39	205.98	3,750.05
Jun	815.90	1,248.32	1,414.00	203.19	3,681.41
Jul	810.09	1,245.87	1,411.23	202.79	3,669.98
Aug	829.35	1,267.91	1,436.20	206.38	3,739.84
Sep	807.66	1,196.37	1,355.16	194.74	3,553.93
Oct	817.12	1,228.27	1,391.29	199.93	3,636.61
Nov	715.17	1,108.26	1,255.36	180.39	3,259.18
Dec	612.13	1,007.87	1,141.64	164.05	2,925.69
YTD	9,381.42	14,312.57	16,212.22	2,329.67	42,235.88

2009					
Month	Residential	Business	Industry	Others	Total
Jan	595.56	973.02	1,102.16	158.38	2,829.12
Feb	759.95	1,065.92	1,207.40	173.50	3,206.77
Mar	877.06	1,209.16	1,369.65	196.82	3,652.69
Apr	920.31	1,092.02	1,236.96	177.75	3,427.04
May	878.82	1,191.24	1,349.35	193.90	3,613.31
Jun	849.78	1,197.17	1,356.06	194.86	3,597.87
Jul	834.35	1,212.01	1,372.87	197.28	3,616.51
Aug	877.83	1,236.34	1,400.44	201.24	3,715.85
Sep	866.66	1,204.89	1,364.81	196.12	3,632.48
Oct	812.69	1,229.42	1,392.60	200.11	3,634.82
Nov	784.09	1,167.04	1,321.94	189.96	3,463.03
Dec	722.16	1,142.08	1,293.67	185.90	3,343.81
YTD	9,779.26	13,920.31	15,767.91	2,265.82	41,733.30

Remarks : 1991 Figures Onward Based on 1990 Structure

Source : MEA

Table 5.2-2M
Electricity Consumption in PEA Service Areas

Unit : GWh

2005						
Month	Residential	Business	Industry	Agriculture	Others	Total
Jan	1,189.91	1,258.35	2,934.10	30.24	472.27	5,884.87
Feb	1,263.57	1,257.70	2,932.60	31.97	472.02	5,957.86
Mar	1,398.61	1,430.30	3,335.04	36.14	536.80	6,736.89
Apr	1,533.47	1,334.50	3,111.65	23.80	500.84	6,504.26
May	1,641.72	1,468.80	3,424.81	22.48	551.25	7,109.06
Jun	1,490.51	1,411.72	3,291.73	16.37	529.83	6,740.16
Jul	1,451.30	1,401.40	3,267.65	19.40	525.95	6,665.70
Aug	1,413.83	1,392.45	3,246.80	18.30	522.60	6,593.98
Sep	1,406.25	1,387.77	3,235.87	10.47	520.84	6,561.20
Oct	1,456.53	1,425.46	3,323.76	13.38	534.99	6,754.12
Nov	1,361.26	1,375.44	3,207.13	11.50	516.21	6,471.54
Dec	1,269.76	1,309.05	3,052.31	15.47	491.29	6,137.88
YTD	16,876.72	16,452.94	38,363.45	249.52	6,174.89	78,117.52

2006						
Month	Residential	Business	Industry	Agriculture	Others	Total
Jan	1,276.38	1,330.50	3,102.33	27.59	499.34	6,236.14
Feb	1,273.00	1,329.08	3,099.02	32.85	498.81	6,232.76
Mar	1,502.51	1,530.20	3,567.99	35.13	574.29	7,210.12
Apr	1,613.57	1,414.19	3,297.48	28.00	530.75	6,883.99
May	1,592.18	1,529.34	3,565.97	17.77	573.97	7,279.23
Jun	1,525.54	1,497.61	3,491.99	15.24	562.06	7,092.44
Jul	1,534.00	1,513.86	3,529.88	19.21	568.16	7,165.11
Aug	1,519.01	1,521.42	3,547.50	20.13	571.00	7,179.06
Sep	1,500.29	1,505.26	3,509.82	10.84	564.93	7,091.14
Oct	1,506.01	1,495.81	3,487.79	4.92	561.39	7,055.92
Nov	1,470.29	1,480.51	3,451.03	10.01	555.47	6,967.31
Dec	1,522.98	1,438.61	3,354.43	18.55	539.92	6,874.49
YTD	17,835.76	17,586.39	41,005.23	240.24	6,600.09	83,267.71

2007						
Month	Residential	Business	Industry	Agriculture	Others	Total
Jan	1,308.00	1,411.70	3,291.67	31.92	529.82	6,573.11
Feb	1,281.26	1,368.67	3,191.34	36.97	513.97	6,392.21
Mar	1,634.63	1,614.99	3,765.69	37.63	606.12	7,659.06
Apr	1,715.87	1,477.98	3,446.22	33.08	554.69	7,227.84
May	1,661.62	1,586.19	3,698.54	12.55	595.31	7,554.21
Jun	1,678.79	1,588.90	3,704.85	16.42	596.32	7,585.28
Jul	1,621.10	1,598.91	3,728.19	27.91	600.08	7,576.19
Aug	1,639.55	1,606.07	3,744.89	22.25	602.77	7,615.53
Sep	1,590.80	1,590.00	3,707.42	10.72	596.74	7,495.68
Oct	1,590.96	1,598.88	3,728.11	8.79	600.07	7,526.81
Nov	1,530.74	1,547.45	3,608.21	11.09	580.77	7,278.26
Dec	1,475.85	1,558.17	3,633.19	18.43	584.79	7,270.43
YTD	18,729.17	18,547.91	43,248.32	267.76	6,961.45	87,754.61

Table 5.2-2M (Cont.)
Electricity Consumption in PEA Service Areas

Unit : GWh

2008						
Month	Residential	Business	Industry	Agriculture	Others	Total
Jan	1,457.17	1,526.69	3,559.80	35.78	572.98	7,152.42
Feb	1,462.42	1,498.07	3,493.06	35.29	562.23	7,051.07
Mar	1,590.09	1,665.75	3,884.04	43.28	625.17	7,808.33
Apr	1,788.81	1,547.73	3,607.93	38.38	580.72	7,563.57
May	1,701.03	1,663.05	3,877.74	14.47	624.15	7,880.44
Jun	1,638.30	1,620.18	3,777.78	14.90	608.06	7,659.22
Jul	1,688.29	1,684.15	3,926.95	26.56	632.07	7,958.02
Aug	1,692.78	1,667.32	3,887.70	26.56	625.76	7,900.12
Sep	1,631.13	1,573.17	3,668.18	13.86	590.42	7,476.76
Oct	1,733.02	1,611.74	3,758.10	11.86	604.89	7,719.61
Nov	1,520.75	1,420.40	3,311.96	5.98	533.08	6,792.17
Dec	1,406.59	1,325.67	3,091.07	20.60	497.53	6,341.46
YTD	19,310.38	18,803.92	43,844.31	287.52	7,057.06	89,303.19

2009						
Month	Residential	Business	Industry	Agriculture	Others	Total
Jan	1,423.71	1,300.27	3,031.85	38.06	488.00	6,281.89
Feb	1,450.12	1,344.74	3,135.20	44.72	504.63	6,479.41
Mar	1,812.23	1,580.74	3,685.82	45.88	593.26	7,717.93
Apr	1,846.39	1,464.97	3,415.89	33.13	549.81	7,310.19
May	1,861.28	1,604.88	3,742.11	20.17	602.32	7,830.76
Jun	1,740.95	1,603.60	3,739.12	18.99	601.84	7,704.50
Jul	1,775.45	1,632.54	3,806.61	24.07	612.70	7,851.37
Aug	1,823.20	1,669.15	3,891.97	26.05	626.44	8,036.81
Sep	1,758.83	1,646.66	3,839.54	16.94	618.00	7,879.97
Oct	1,789.54	1,685.20	3,929.39	10.16	632.47	8,046.76
Nov	1,654.54	1,600.48	3,731.85	12.21	600.67	7,599.75
Dec	1,542.61	1,580.24	3,684.66	25.52	593.07	7,426.10
YTD	20,478.85	18,713.47	43,634.01	315.90	7,023.21	90,165.44

Remarks : 1991 Figures Onward Based On 1990 Structure

Source : PEA

Electricity

Table 5.2-3M
Electricity Consumption for Nationwide

Unit : GWh

2005							
Month	Residential	Business	Industry	Agriculture	Others	EGAT Direct Customer	Total
Jan	1,760.85	2,299.12	4,113.01	30.24	641.68	187.45	9,032.35
Feb	1,934.10	2,319.74	4,135.60	31.97	644.89	181.52	9,247.82
Mar	2,134.29	2,629.76	4,693.70	36.14	732.04	213.94	10,439.87
Apr	2,364.06	2,452.06	4,377.54	23.80	682.75	201.87	10,102.08
May	2,501.88	2,694.35	4,813.02	22.48	750.73	229.67	11,012.13
Jun	2,279.63	2,623.35	4,664.17	16.37	727.05	228.98	10,539.55
Jul	2,188.61	2,561.16	4,581.34	19.40	714.73	202.44	10,267.68
Aug	2,143.18	2,562.03	4,571.62	18.30	712.97	194.35	10,202.45
Sep	2,138.33	2,554.70	4,557.68	10.47	710.78	187.67	10,159.63
Oct	2,176.03	2,585.53	4,637.80	13.38	723.82	189.23	10,325.79
Nov	2,036.48	2,510.93	4,493.33	11.50	701.03	197.04	9,950.31
Dec	1,856.65	2,371.09	4,255.31	15.47	664.16	195.02	9,357.70
YTD	25,514.09	30,163.82	53,894.12	249.52	8,406.63	2,409.19	120,637.37

2006							
Month	Residential	Business	Industry	Agriculture	Others	EGAT Direct Customer	Total
Jan	1,888.11	2,397.38	4,310.81	27.59	673.00	216.74	9,513.63
Feb	1,957.67	2,410.49	4,323.96	32.85	674.83	204.53	9,604.33
Mar	2,321.39	2,794.61	5,000.22	35.13	780.10	201.58	11,133.03
Apr	2,447.85	2,535.75	4,567.90	28.00	713.31	206.64	10,499.45
May	2,403.71	2,759.12	4,958.98	17.77	774.14	224.36	11,138.08
Jun	2,314.50	2,710.19	4,865.51	15.24	759.43	205.34	10,870.21
Jul	2,300.34	2,734.20	4,912.19	19.21	766.80	209.75	10,942.49
Aug	2,285.86	2,737.18	4,924.62	20.13	768.89	214.20	10,950.88
Sep	2,273.10	2,700.08	4,863.23	10.84	759.41	198.42	10,805.08
Oct	2,251.38	2,694.74	4,845.85	4.92	756.54	196.35	10,749.78
Nov	2,252.06	2,687.17	4,817.85	10.01	751.88	199.24	10,718.21
Dec	2,218.94	2,541.44	4,603.63	18.55	719.43	210.09	10,312.08
YTD	26,914.91	31,702.35	56,994.75	240.24	8,897.76	2,487.23	127,237.24

2007							
Month	Residential	Business	Industry	Agriculture	Others	EGAT Direct Customer	Total
Jan	1,912.39	2,505.21	4,530.32	31.92	707.81	216.93	9,904.58
Feb	1,955.63	2,441.96	4,407.08	36.97	688.67	202.92	9,733.23
Mar	2,486.70	2,891.97	5,212.16	37.63	813.98	240.87	11,683.31
Apr	2,575.14	2,638.77	4,761.07	33.08	743.63	247.76	10,999.45
May	2,491.88	2,826.00	5,102.90	12.55	797.11	209.44	11,439.88
Jun	2,551.82	2,851.48	5,135.00	16.42	801.83	234.35	11,590.90
Jul	2,403.57	2,822.31	5,113.97	27.91	799.21	228.03	11,395.00
Aug	2,440.27	2,838.63	5,141.04	22.25	803.40	227.08	11,472.67
Sep	2,402.24	2,811.49	5,091.03	10.72	795.56	214.27	11,325.31
Oct	2,357.49	2,812.33	5,102.62	8.79	797.58	214.03	11,292.84
Nov	2,222.70	2,704.09	4,918.37	11.09	769.04	217.16	10,842.45
Dec	2,159.74	2,694.69	4,920.56	18.43	769.78	249.32	10,812.52
YTD	27,959.57	32,838.93	59,436.12	267.76	9,287.60	2,702.14	132,492.12

Table 5.2-3M (Cont.)
Electricity Consumption for Nationwide

Unit : GWh

2008							
Month	Residential	Business	Industry	Agriculture	Others	EGAT Direct Customer	Total
Jan	2,164.65	2,690.96	4,878.60	35.78	762.49	248.82	10,781.30
Feb	2,178.39	2,632.99	4,778.62	35.29	746.96	240.55	10,612.80
Mar	2,395.10	2,932.15	5,318.52	43.28	831.30	279.24	11,799.59
Apr	2,689.11	2,726.40	4,943.04	38.38	772.57	275.43	11,444.93
May	2,546.27	2,928.49	5,311.13	14.47	830.13	245.35	11,875.84
Jun	2,454.20	2,868.50	5,191.78	14.90	811.25	235.92	11,576.55
Jul	2,498.38	2,930.02	5,338.18	26.56	834.86	236.05	11,864.05
Aug	2,522.13	2,935.23	5,323.90	26.56	832.14	247.88	11,887.84
Sep	2,438.79	2,769.54	5,023.34	13.86	785.16	213.35	11,244.04
Oct	2,550.14	2,840.01	5,149.39	11.86	804.82	221.61	11,577.83
Nov	2,235.92	2,528.66	4,567.32	5.98	713.47	201.75	10,253.10
Dec	2,018.72	2,333.54	4,232.71	20.60	661.58	226.80	9,493.95
YTD	28,691.80	33,116.49	60,056.53	287.52	9,386.73	2,872.75	134,411.82

2009							
Month	Residential	Business	Industry	Agriculture	Others	EGAT Direct Customer	Total
Jan	2,019.27	2,273.29	4,134.01	38.06	646.38	215.08	9,326.09
Feb	2,210.07	2,410.66	4,342.60	44.72	678.13	229.00	9,915.18
Mar	2,689.29	2,789.90	5,055.47	45.88	790.08	266.96	11,637.58
Apr	2,766.70	2,556.99	4,652.85	33.13	727.56	261.82	10,999.05
May	2,740.10	2,796.12	5,091.46	20.17	796.22	256.52	11,700.59
Jun	2,590.73	2,800.77	5,095.18	18.99	796.70	225.26	11,527.63
Jul	2,609.80	2,844.55	5,179.48	24.07	809.98	223.73	11,691.61
Aug	2,701.03	2,905.49	5,292.41	26.05	827.68	217.35	11,970.01
Sep	2,625.49	2,851.55	5,204.35	16.94	814.12	220.58	11,733.03
Oct	2,602.23	2,914.62	5,321.99	10.16	832.58	256.94	11,938.52
Nov	2,438.63	2,767.52	5,053.79	12.21	790.63	254.22	11,317.00
Dec	2,264.77	2,722.32	4,978.33	25.52	778.97	266.69	11,036.60
YTD	30,258.11	32,633.78	59,401.92	315.90	9,289.03	2,894.15	134,792.89

Remarks : 1991 Figures Onward Based On 1990 Structure

Source : MEA, PEA and EGAT

Table 5.3-1M
EGAT Fuel Consumption in Power Generation

2005														
Fuel Type	Unit	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
Diesel	M.Litres	3.7	8.6	2.9	10.5	9.3	1.5	0.8	1.0	7.4	1.8	0.8	0.9	49.2
Fuel Oil	M.Litres	49.7	142.5	177.5	199.0	202.2	167.2	150.3	154.8	201.2	222.6	93.9	90.0	1,850.7
Natural Gas	MMSCF	50,702.3	51,066.8	56,271.4	50,392.1	60,519.6	53,873.1	54,362.1	55,947.2	53,790.1	51,180.9	51,045.7	46,112.4	635,263.6
Lignite	1,000 Tons	1,315.9	1,176.1	1,497.3	1,414.2	1,448.4	1,465.8	1,470.4	1,319.8	1,271.3	1,412.9	1,416.9	1,362.1	16,571.1
2006														
Fuel Type	Unit	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
Diesel	M.Litres	1.0	2.8	8.9	2.7	1.2	0.8	0.4	0.7	1.3	0.3	0.4	0.5	21.0
Fuel Oil	M.Litres	132.7	304.4	247.9	196.9	207.8	268.6	232.8	142.0	71.9	34.0	31.0	25.5	1,895.5
Natural Gas	MMSCF	47,027.0	49,073.4	61,561.8	52,000.5	59,402.1	55,763.3	55,972.3	54,132.8	52,993.4	54,239.2	54,521.3	48,014.8	644,702.0
Lignite	1,000 Tons	1,331.8	1,145.7	1,280.5	1,295.9	1,462.7	1,427.6	1,399.9	1,292.7	1,361.4	1,307.2	1,242.2	1,267.9	15,815.4
2007														
Fuel Type	Unit	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
Diesel	M.Litres	0.6	0.6	0.5	0.8	0.8	0.8	0.4	0.8	0.4	0.7	0.6	1.1	8.0
Fuel Oil	M.Litres	4.7	25.2	65.1	70.2	48.7	64.2	7.2	102.4	125.7	105.2	52.3	109.7	780.5
Natural Gas	MMSCF	47,042.8	46,251.4	59,715.4	52,733.4	58,406.6	56,536.9	54,111.4	53,806.3	51,598.1	51,733.1	47,778.3	46,119.0	625,832.6
Lignite	1,000 Tons	1,314.9	1,209.5	1,323.7	1,084.9	1,265.7	1,281.6	1,491.6	1,493.1	1,381.6	1,293.1	1,328.2	1,343.1	15,811.1
2008														
Fuel Type	Unit	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
Diesel	M.Litres	0.7	0.7	0.9	1.6	0.4	0.6	0.4	0.5	0.6	0.4	0.6	0.4	7.7
Fuel Oil	M.Litres	1.1	23.0	107.4	82.6	22.2	1.1	0.4	4.3	7.2				249.3
Natural Gas	MMSCF	46,376.6	45,430.7	47,431.0	47,203.7	51,307.7	47,249.4	51,002.5	52,394.2	47,515.2	47,982.3	43,336.7	42,964.4	570,194.4
Lignite	1,000 Tons	1,317.9	1,291.5	1,354.5	1,414.5	1,491.4	1,372.2	1,262.5	1,334.4	1,386.0	1,337.5	1,366.7	1,478.3	16,407.5
2009														
Fuel Type	Unit	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
Diesel	M.Litres	0.6	0.4	3.2	1.8	2.0	0.4	0.6	0.2	0.9	0.6	1.0	1.3	12.9
Fuel Oil	M.Litres	8.1				0.4	1.8	0.5	36.8	1.2	44.7	7.6	10.0	111.0
Natural Gas	MMSCF	34,264.8	40,718.7	48,342.7	47,123.1	49,910.8	48,557.0	46,058.1	49,007.3	50,027.5	52,541.7	49,417.7	46,394.8	562,364.2
Lignite	1,000 Tons	1,461.5	1,144.9	1,255.1	1,313.5	1,370.3	1,463.2	1,451.5	1,304.1	1,243.9	1,287.7	1,227.4	1,295.2	15,818.3

Source : EGAT

Compiled by : Energy Policy and Planning Office (EPPO)

Table 5.4-1M
Import of Electricity

Unit: GWh

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	YTD
1986	56.23	48.33	37.14	31.96	43.36	53.23	83.70	0.09	87.15	63.82	53.72	38.97	597.70
1987	35.75	29.89	31.36	28.55	27.48	31.62	17.54	24.46	0.14	46.84	48.70	64.92	387.25
1988	42.98	41.80	29.84	27.20	26.46	31.11	23.65	35.73	27.84	33.39	25.27	18.33	363.61
1989	19.48	17.30	17.43	16.83	20.10	32.86	44.45	54.88	83.36	72.97	59.03	51.85	490.54
1990	60.18	46.72	43.27	30.06	23.14	41.15	53.97	62.17	56.26	65.95	56.41	60.21	599.50
1991	40.98	42.69	41.99	55.24	35.24	40.22	69.66	85.75	56.57	50.27	49.49	25.00	593.11
1992	23.44	35.23	21.03	29.11	34.38	46.55	69.72	75.39	50.58	47.08	27.64	19.73	479.88
1993	22.76	15.83	20.70	24.69	31.91	45.45	77.84	116.29	120.09	82.62	37.28	49.06	644.51
1994	47.31	42.80	47.61	42.14	50.38	60.65	103.99	116.49	120.69	113.87	64.51	60.39	870.82
1995	44.81	46.85	40.29	38.78	39.00	41.04	54.34	93.07	104.83	83.30	57.68	55.13	699.12
1996	40.48	43.77	35.38	33.81	38.92	54.63	64.62	99.19	114.07	113.68	81.43	85.64	805.61
1997	45.76	40.48	32.41	43.66	44.02	42.26	69.28	99.79	104.66	105.17	66.29	51.87	745.63
1998	71.99	102.90	87.18	92.21	101.40	181.12	197.53	151.91	191.39	174.34	130.02	140.71	1,622.71
1999	102.68	63.18	61.91	76.95	177.15	199.06	241.72	258.48	277.66	283.14	262.92	250.83	2,255.66
2000	176.64	137.87	167.36	192.37	294.32	267.33	301.01	320.31	336.51	298.65	246.17	227.72	2,966.26
2001	206.11	158.36	171.13	138.52	205.79	279.94	318.69	316.53	312.74	302.73	257.96	213.27	2,881.76
2002	190.30	149.19	146.50	163.46	221.70	271.79	301.33	313.36	289.41	300.72	241.30	223.12	2,812.18
2003	189.80	140.37	146.97	114.73	174.74	223.71	237.11	259.51	284.30	298.83	221.68	181.65	2,473.41
2004	151.66	182.15	148.30	310.09	216.58	282.33	361.39	382.18	362.98	373.34	352.36	254.50	3,377.85
2005	234.07	193.96	304.44	311.02	282.50	409.15	434.85	489.89	493.78	376.64	440.68	400.93	4,371.89
2006	377.46	366.69	449.86	409.01	294.49	437.64	496.20	511.43	505.99	434.09	478.72	390.29	5,151.85
2007	335.50	278.82	386.01	365.28	400.04	333.76	422.92	335.66	273.48	502.59	435.95	418.37	4,488.36
2008	342.25	170.17	152.48	260.32	167.29	227.36	275.81	271.39	327.00	268.45	183.03	138.02	2,783.57
2009	171.11	106.10	130.43	108.28	147.45	182.69	245.53	275.08	205.88	273.76	336.01	277.76	2,460.09

Source : EGAT

Compiled by : Energy Policy and Planning Office (EPPO)

Unit: GWh

Table 5.4-2M
Export of Electricity

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	YTD
1986	1.44	1.37	1.57	1.46	1.47	1.43	1.46	1.42	1.43	1.47	1.32	1.38	17.20
1987	1.41	1.34	1.56	1.53	1.56	1.47	1.51	1.50	1.52	1.61	1.52	1.47	18.01
1988	1.56	1.52	1.70	1.65	1.72	1.62	1.76	1.73	1.73	1.63	1.53	1.64	19.80
1989	1.77	1.63	1.89	1.98	2.05	1.95	2.01	2.04	1.99	2.01	1.87	1.91	23.10
1990	2.10	1.98	2.35	3.61	2.39	2.29	2.36	2.44	2.41	2.41	2.25	2.33	28.92
1991	2.58	2.42	3.04	2.98	3.17	3.05	3.17	2.95	3.09	3.02	2.71	2.95	35.13
1992	3.05	3.16	4.11	4.12	3.98	3.41	3.31	3.32	3.33	3.19	3.05	3.34	41.36
1993	3.62	3.28	5.36	4.56	3.79	3.76	4.01	3.79	3.94	3.90	3.80	3.91	47.73
1994	4.15	4.31	5.54	6.14	5.41	4.44	4.47	4.50	4.51	4.53	4.47	4.97	57.44
1995	5.93	6.22	8.48	9.02	7.57	5.83	5.59	5.69	5.55	5.58	5.24	6.13	76.83
1996	7.21	7.06	9.30	8.19	7.12	6.99	7.13	6.91	6.00	6.38	5.92	6.25	84.47
1997	7.41	7.48	10.40	9.26	9.42	7.89	7.64	7.50	7.39	7.40	7.06	9.04	97.88
1998	12.21	11.87	15.46	14.10	12.18	10.31	9.59	9.39	9.15	10.69	9.96	12.68	137.60
1999	17.25	18.09	28.29	20.05	11.22	9.65	10.64	10.75	9.62	9.76	9.15	10.36	164.83
2000	13.75	15.18	19.22	14.82	11.51	10.63	10.88	10.96	9.82	10.45	10.29	12.41	149.92
2001	16.41	16.79	20.48	19.11	14.96	11.57	11.56	11.55	10.98	11.31	10.02	12.78	167.52
2002	16.36	17.79	23.42	21.08	15.96	13.09	12.04	11.91	11.47	11.89	11.36	14.58	180.93
2003	16.43	19.17	24.85	23.10	21.49	15.24	14.91	13.37	12.53	13.33	13.55	17.68	205.65
2004	22.95	23.16	33.08	28.07	30.52	17.08	14.39	14.10	13.73	14.29	17.27	24.40	253.04
2005	35.35	34.36	42.76	42.95	69.57	57.23	33.56	32.48	36.36	35.65	37.04	42.62	499.93
2006	50.87	48.47	55.40	53.06	52.98	46.24	42.03	42.10	43.64	40.35	53.19	57.67	586.01
2007	59.71	51.68	78.82	74.27	59.42	76.20	55.76	53.49	52.72	45.91	49.08	73.80	730.86
2008	74.12	66.39	84.97	87.13	64.49	48.30	54.73	56.12	49.02	51.33	55.79	80.40	772.80
2009	71.37	82.98	109.53	110.55	100.55	74.07	59.06	57.50	67.33	112.80	111.98	122.31	1,080.02

Source : EGAT

Compiled by : Energy Policy and Planning Office (EPPO)



Energy Statistics
of Thailand 2010

APPENDIX I

Chapter 6
ENERGY VALUE

.....

บทที่ 6
มูลค่าพลังงาน

Table 6.1-1M
Expenditure on Final Energy Consumption

Unit : Million Bahts

2005													
Energy Type	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
Petroleum Products	53,090	52,005	59,918	62,302	64,495	64,783	66,428	70,295	68,930	69,635	68,693	73,831	774,404
Electricity	24,031	24,835	27,984	26,976	29,413	28,791	27,540	27,697	27,681	28,954	28,067	26,269	328,237
Natural Gas	1,585	1,315	1,534	1,393	1,587	1,636	1,691	1,945	2,286	2,379	2,506	2,419	22,275
Lignite/Coal	1,547	1,455	1,763	1,563	1,766	1,518	1,552	1,351	1,535	1,495	1,427	1,464	18,438
Renewable Energy	9,712	9,155	7,859	7,537	7,399	7,373	7,357	7,389	7,385	7,474	8,281	8,621	95,541
Total	89,965	88,764	99,058	99,772	104,660	104,100	104,568	108,677	107,817	109,937	108,974	112,604	1,238,894
2006													
Energy Type	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
Petroleum Products	76,856	71,128	81,628	78,950	81,471	78,593	78,487	78,506	71,251	70,288	72,163	76,139	915,461
Electricity	26,898	28,789	33,555	31,440	33,259	33,871	33,474	34,089	33,486	32,503	32,652	31,121	385,135
Natural Gas	2,196	1,993	2,361	2,150	2,577	2,475	2,473	2,662	2,472	2,611	2,485	2,426	28,880
Lignite/Coal	1,575	1,599	1,689	1,430	1,376	1,483	1,393	1,336	1,495	1,412	1,365	1,871	18,024
Renewable Energy	9,186	8,981	8,367	7,694	7,560	7,527	7,521	7,534	7,547	7,642	8,517	9,067	97,142
Total	116,710	112,489	127,599	121,664	126,243	123,949	123,347	124,128	116,250	114,455	117,182	120,625	1,444,642
2007													
Energy Type	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
Petroleum Products	75,082	69,647	79,120	77,528	79,328	78,873	78,823	78,262	76,495	83,748	87,610	90,854	955,370
Electricity	29,877	29,123	34,787	32,875	34,117	34,139	33,349	33,891	33,110	32,807	31,655	30,999	390,731
Natural Gas	2,728	2,402	2,503	2,528	2,835	2,706	2,783	3,174	2,979	3,445	3,421	3,606	35,110
Lignite/Coal	1,913	1,652	3,719	1,965	1,370	1,486	1,703	2,203	1,475	1,683	1,752	2,208	23,128
Renewable Energy	9,595	9,329	8,993	8,204	7,958	7,879	7,882	7,901	7,908	8,001	8,914	9,538	102,103
Total	119,195	112,152	129,122	123,100	125,608	125,083	124,541	125,430	121,967	129,685	133,352	137,206	1,506,442

Table 6.1-1M (Cont.)
Expenditure on Final Energy Consumption

Unit : Million Bahts

2008													
Energy Type	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
Petroleum Products	93,825	87,524	96,686	100,575	104,806	106,379	105,934	95,168	85,665	81,394	66,387	65,406	1,089,748
Electricity	31,388	31,148	34,437	33,984	34,544	33,333	34,007	33,965	32,672	35,168	30,916	28,976	394,538
Natural Gas	3,903	3,812	3,890	3,920	4,255	4,343	5,268	5,442	5,697	5,279	4,327	3,731	53,867
Lignite/Coal	2,083	2,119	2,008	2,212	2,747	2,330	2,479	2,656	2,682	2,501	2,430	2,347	28,594
Renewable Energy	9,810	9,601	9,459	8,406	8,110	7,996	7,982	8,018	7,976	8,010	9,002	9,620	103,991
Total	141,010	134,205	146,479	149,098	154,462	154,381	155,669	145,249	134,693	132,352	113,062	110,080	1,670,738
2009													
Energy Type	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
Petroleum Products	68,619	64,043	74,638	74,601	79,720	78,840	82,601	85,077	81,951	81,796	86,840	96,988	955,715
Electricity	29,895	31,855	37,427	34,978	36,863	37,143	36,880	37,929	37,512	37,690	36,360	35,077	429,609
Natural Gas	3,398	3,131	3,682	3,426	3,559	3,852	4,066	4,356	4,755	5,081	5,011	4,955	49,272
Lignite/Coal	2,025	1,977	2,292	2,595	2,514	2,700	2,424	2,316	2,552	2,198	2,275	2,462	28,330
Renewable Energy	10,957	10,743	10,053	9,237	8,984	8,889	8,882	8,894	8,880	8,974	10,045	10,729	115,267
Total	114,894	111,749	128,092	124,837	131,640	131,424	134,852	138,573	135,649	135,739	140,531	150,212	1,578,193

Source : PTT, EGAT, DOEB and DEDE
Compiled by : Energy Policy and Planning Office (EPPO)

Table 6.1-2M
Expenditure on Petroleum Products Consumption

Unit : Million Bahts

Energy Type	2005												Total
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
Gasoline	11,589	12,112	12,921	13,773	13,342	14,581	14,247	15,672	15,016	14,533	14,092	14,910	166,787
- Regular	6,933	7,220	7,641	8,119	7,955	8,592	8,643	9,522	9,179	8,944	8,626	9,083	100,458
- Premium	4,656	4,892	5,279	5,653	5,387	5,989	5,604	6,150	5,837	5,589	5,465	5,827	66,329
Kerosene	40	35	44	40	41	47	43	43	47	47	45	47	520
Diesel	25,198	25,106	29,456	31,039	33,144	33,028	32,959	35,847	33,616	34,826	34,560	37,933	386,712
- HSD	25,106	25,010	29,317	30,933	33,011	32,881	32,820	35,702	33,473	34,720	34,493	37,852	385,320
- LSD	92	95	138	105	133	147	139	145	143	106	67	81	1,392
J.P.	7,921	7,119	8,183	8,423	8,304	7,882	8,713	8,845	9,569	9,808	10,037	10,498	105,301
Fuel Oil	4,280	3,945	5,220	5,237	5,632	5,071	6,146	5,586	6,384	6,150	5,819	6,104	65,574
LPG (Million Kgs.)	4,062	3,688	4,094	3,791	4,031	4,174	4,318	4,301	4,298	4,272	4,140	4,339	49,510
Total	53,090	52,005	59,918	62,302	64,495	64,783	66,428	70,295	68,930	69,635	68,693	73,831	774,404
Energy Type	2006												Total
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
Gasoline	15,587	13,976	16,331	16,793	17,319	17,117	17,375	16,976	15,221	15,176	15,368	16,176	193,415
- Regular	9,433	8,503	9,862	10,096	10,754	10,821	11,084	11,020	9,902	9,868	10,051	10,491	121,885
- Premium	6,154	5,473	6,469	6,697	6,565	6,296	6,291	5,956	5,320	5,309	5,317	5,684	71,531
Kerosene	44	42	50	43	48	47	50	50	48	47	45	47	562
Diesel	39,082	37,302	43,709	41,164	43,070	40,360	40,038	39,609	35,711	34,646	36,655	37,624	468,950
- HSD	38,945	37,199	43,551	40,950	42,952	40,262	39,881	39,473	35,618	34,570	36,540	37,503	467,443
- LSD	117	104	158	214	118	98	157	136	93	76	115	121	1,507
J.P.	11,380	10,228	10,889	10,575	10,640	10,210	10,649	10,791	10,167	10,355	10,773	12,198	128,856
Fuel Oil	6,480	5,533	6,348	6,174	5,843	6,268	5,604	6,010	5,185	5,011	4,764	5,302	68,524
LPG (Million Kgs.)	4,302	4,047	4,301	4,202	4,551	4,590	4,771	5,069	4,918	5,052	4,559	4,792	55,153
Total	76,856	71,128	81,628	78,950	81,471	78,593	78,487	78,506	71,251	70,288	72,163	76,139	915,461
Energy Type	2007												Total
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
Gasoline	15,289	14,237	16,714	16,886	17,397	17,774	17,619	17,325	16,607	17,866	17,821	18,931	204,467
- Regular	10,047	9,247	11,037	11,192	11,503	11,714	11,566	11,339	10,656	11,330	11,144	11,756	132,532
- Premium	5,243	4,990	5,678	5,695	5,893	6,060	6,053	5,986	5,951	6,535	6,677	7,175	71,935
Kerosene	42	37	46	36	43	51	42	40	46	53	47	42	526
Diesel	37,411	34,658	40,565	39,028	39,539	39,851	38,328	39,507	38,133	41,124	44,088	46,669	478,902
- HSD	37,310	34,573	40,470	38,953	39,491	39,809	38,266	39,460	38,056	41,040	44,024	46,629	478,082
- LSD	101	86	94	75	48	42	62	47	78	83	64	40	819
J.P.	11,901	11,115	11,710	11,346	11,606	10,613	11,480	11,939	11,373	12,116	13,432	14,111	142,742
Fuel Oil	5,116	5,056	5,295	5,328	5,364	5,238	5,636	3,818	4,899	6,726	6,344	4,933	63,753
LPG (Million Kgs.)	5,323	4,543	4,790	4,905	5,378	5,346	5,717	5,632	5,437	5,864	5,879	6,168	64,981
Total	75,082	69,647	79,120	77,528	79,328	78,873	78,823	78,262	76,495	83,748	87,610	90,854	955,370

Table 6.1-2M (Cont.)
Expenditure on Petroleum Products Consumption

Unit : Million Bahts

Energy Type	2008												Total
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
Gasoline	18,645	17,793	19,239	19,938	20,719	21,596	21,606	19,325	18,004	17,021	13,586	12,879	220,348
- Regular	11,645	11,090	12,108	12,605	13,214	13,981	13,926	12,330	11,217	10,544	8,207	7,728	138,594
- Premium	7,000	6,702	7,131	7,333	7,505	7,615	7,679	6,994	6,787	6,477	5,379	5,151	81,754
Kerosene	50	45	46	53	61	61	55	50	48	45	39	39	593
Diesel	47,771	44,471	51,729	51,830	55,017	55,587	52,835	45,304	40,187	36,247	30,638	31,195	542,811
- HSD	47,732	44,407	51,670	51,787	54,950	55,561	52,832	45,304	40,187	36,247	30,638	31,195	542,508
- LSD	40	64	59	44	67	26	3	0	0	0	0	0	303
J.P.	14,555	13,949	13,822	14,552	15,569	16,272	16,897	15,623	13,783	15,253	12,855	11,987	175,118
Fuel Oil	6,332	5,155	5,400	7,949	6,303	5,825	7,008	6,966	6,094	5,202	3,645	3,767	69,647
LPG (Million Kgs.)	6,471	6,112	6,450	6,253	7,136	7,037	7,533	7,901	7,549	7,626	5,624	5,539	81,232
Total	93,825	87,524	96,686	100,575	104,806	106,379	105,934	95,168	85,665	81,394	66,387	65,406	1,089,748
Energy Type	2009												Total
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
Gasoline	12,922	13,888	16,600	17,277	18,515	18,506	19,440	20,432	20,131	16,239	19,365	21,518	214,832
- Regular	7,706	8,186	9,634	10,000	10,726	10,768	11,406	11,961	11,505	8,064	11,408	12,681	124,046
- Premium	5,216	5,702	6,966	7,277	7,789	7,737	8,034	8,471	8,627	8,175	7,956	8,837	90,786
Kerosene	39	50	64	45	50	51	50	53	63	63	60	69	657
Diesel	31,105	27,349	32,381	34,424	37,164	36,828	37,629	39,456	36,478	38,329	40,621	46,314	438,079
- HSD	31,105	27,349	32,381	34,424	37,164	36,828	37,629	39,456	36,478	38,329	40,621	46,314	438,079
- LSD	-	-	-	-	-	-	-	-	-	-	-	-	-
J.P.	14,703	13,552	15,037	12,800	12,977	11,987	13,241	13,516	12,909	14,082	14,574	15,540	164,897
Fuel Oil	3,709	3,625	3,668	3,468	4,027	4,384	4,550	4,067	4,911	5,394	4,767	5,531	52,101
LPG (Million Kgs.)	6,141	5,579	6,888	6,588	6,987	7,104	7,691	7,553	7,459	7,689	7,454	8,015	85,148
Total	68,619	64,043	74,638	74,601	79,720	78,840	82,601	85,077	81,951	81,796	86,840	96,988	955,715

Remarks : Final Energy Consumption
Source : Department of Energy Business
Compiled by : Energy Policy and Planning Office (EPPO)

Table 6.1-3M
Value of Energy Import

Unit : Million Bahts

Energy Type	2005												Total
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
Crude Oil	42,600	36,703	48,737	50,146	58,127	53,273	62,909	64,376	62,193	60,048	43,798	62,022	644,933
Pet. Products	4,366	2,322	5,112	8,044	5,808	4,819	4,869	4,144	3,821	5,799	2,713	3,863	55,680
Natural Gas	4,195	4,303	4,782	5,020	5,389	5,404	5,616	5,683	5,312	6,202	5,891	5,028	62,827
Coal	1,245	1,145	1,151	1,252	1,698	1,358	849	1,696	1,284	1,049	1,589	1,106	15,422
Electricity	390	330	457	475	464	658	752	789	789	577	745	689	7,114
Total Import	52,796	44,803	60,238	64,937	71,485	65,513	74,995	76,688	73,400	73,676	54,737	72,708	785,976
Energy Type	2006												Total
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
Crude Oil	62,076	50,304	68,026	59,984	71,767	64,222	69,022	76,911	64,743	62,568	46,447	57,713	753,783
Pet. Products	5,403	4,862	6,858	7,939	5,732	4,993	6,644	5,325	4,593	4,035	2,223	3,744	62,350
Natural Gas	4,978	5,014	6,762	6,073	7,160	6,963	7,026	7,304	6,901	6,859	6,892	5,911	77,843
Coal	1,251	1,112	1,627	1,260	1,857	1,892	927	1,652	2,033	1,790	1,787	1,708	18,896
Electricity	615	598	702	641	488	715	794	812	820	704	762	643	8,294
Total Import	74,323	61,890	83,975	75,898	87,003	78,785	84,412	92,005	79,090	75,955	58,111	69,718	921,166
Energy Type	2007												Total
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
Crude Oil	45,766	55,654	49,338	59,555	57,561	53,726	63,418	72,574	56,986	62,359	65,457	73,396	715,789
Pet. Products	3,391	2,933	2,237	4,700	4,964	4,039	3,932	3,528	4,307	4,904	5,991	3,390	48,317
Natural Gas	6,137	5,844	6,974	5,976	6,873	6,706	6,371	6,617	6,820	7,286	6,979	6,319	78,901
Coal	1,770	1,574	4,652	2,024	2,291	2,402	2,036	3,070	2,463	2,086	2,531	2,757	29,656
Electricity	541	462	645	592	643	563	698	541	431	834	748	717	7,414
Total Import	57,605	66,467	63,846	72,848	72,332	67,435	76,454	86,330	71,008	77,469	81,705	86,579	880,078

Table 6.1-3M (Cont.)
Value of Energy Import

Unit : Million Bahts

Energy Type	2008												Total
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
Crude Oil	83,146	82,609	91,595	83,220	99,964	97,248	107,669	116,573	80,313	81,128	37,257	41,945	1,002,667
Pet. Products	3,730	1,051	4,454	7,081	934	2,885	2,260	723	2,954	69	209	394	26,745
Natural Gas	6,184	6,713	7,179	5,384	6,934	6,940	8,463	8,734	8,825	9,542	8,126	7,485	90,506
Coal	2,413	2,992	2,511	3,137	3,898	2,544	3,018	3,283	3,452	3,327	2,608	3,273	36,456
Electricity	582	287	235	449	282	347	431	416	534	439	305	232	4,540
Total Import	96,055	93,652	105,974	99,271	112,012	109,963	121,841	129,729	96,078	94,506	48,504	53,329	1,160,915
Energy Type	2009												Total
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
Crude Oil	36,462	28,368	49,271	44,718	48,364	60,146	55,053	56,159	64,510	58,875	65,035	56,061	623,024
Pet. Products	1,395	2,112	3,457	539	1,423	316	659	264	950	399	812	753	13,079
Natural Gas	3,442	7,319	7,278	7,639	8,708	8,554	7,302	8,005	7,613	7,142	6,666	4,539	84,208
Coal	2,011	2,451	3,468	3,588	3,364	2,769	3,394	3,267	3,754	4,601	1,816	2,452	36,935
Electricity	308	183	228	177	242	292	384	422	396	344	332	315	3,623
Total Import	43,619	40,433	63,702	56,662	62,102	72,077	66,792	68,116	77,224	71,361	74,661	64,120	760,869

Source : PTT, EGAT, DOEB and DEDE
Compiled by : Energy Policy and Planning Office (EPPO)

Table 6.1-4M
Value of Energy Export

Unit : Million Bahts

Energy Type	2005												Total
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
Crude Oil	3,816	2,217	2,527	3,127	2,556	4,924	4,667	7,939	5,378	5,897	5,472	4,338	52,858
Petroleum Products	5,989	4,624	5,967	6,432	6,085	6,582	11,960	19,028	13,840	10,473	9,752	10,803	111,534
Electricity	92	90	112	111	181	153	88	86	97	98	102	117	1,325
Total Export	9,897	6,931	8,606	9,671	8,822	11,659	16,714	27,053	19,315	16,467	15,326	15,258	165,718
Energy Type	2006												Total
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
Crude Oil	4,162	5,497	3,978	5,880	3,880	5,097	4,492	6,319	4,395	5,158	4,477	3,501	56,835
Petroleum Products	11,747	10,717	12,728	11,801	12,563	11,062	18,699	18,542	16,022	11,504	13,170	12,371	160,926
Electricity	141	142	163	155	155	141	126	128	132	119	159	170	1,730
Total Export	16,050	16,356	16,868	17,837	16,597	16,299	23,317	24,990	20,549	16,781	17,805	16,042	219,491
Energy Type	2007												Total
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
Crude Oil	3,940	3,309	2,526	3,761	3,553	3,352	4,119	3,574	4,328	3,282	5,731	4,339	45,812
Petroleum Products	10,627	8,931	11,289	9,816	16,009	12,242	10,246	12,707	14,505	15,081	18,778	18,845	159,077
Electricity	176	151	229	217	173	219	159	155	150	130	140	207	2,107
Total Export	14,743	12,391	14,043	13,794	19,735	15,813	14,525	16,436	18,983	18,493	24,649	23,391	206,995

Table 6.1-4M (Cont.)
Value of Energy Export

Unit : Million Bahts

Energy Type	2008												Total
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
Crude Oil	3,864	3,337	3,459	5,158	9,962	6,071	7,036	4,743	5,216	3,784	2,213	1,731	56,575
Petroleum Products	19,009	16,124	20,536	20,907	27,618	25,109	32,984	32,644	19,107	18,951	13,120	14,274	260,384
Electricity	211	191	242	253	183	136	153	157	139	152	177	258	2,253
Total Export	23,084	19,652	24,238	26,318	37,763	31,316	40,173	37,543	24,462	22,887	15,511	16,264	319,212
Energy Type	2009												Total
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
Crude Oil	2,356	1,549	1,528	2,298	2,374	1,549	4,211	2,609	1,392	1,960	2,806	2,778	27,410
Petroleum Products	12,770	8,455	10,737	14,032	17,315	22,274	18,479	21,369	19,108	21,846	17,668	21,234	205,286
Electricity	225	261	346	343	310	235	182	178	211	349	347	379	3,365
Total Export	15,351	10,265	12,611	16,673	19,998	24,058	22,871	24,156	20,711	24,155	20,821	24,391	236,061

Source : PTT, EGAT, DOEB and DEDE
Compiled by : Energy Policy and Planning Office (EPPO)



APPENDIX I

Chapter 7 PETROLEUM PRICES

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บทที่ 7
ราคาน้ำมันปิโตรเลียม

Table 7.1-1M
Ex-Refinery Prices of Petroleum Products in Thailand

Unit : Baht/Litre

Ex-Refinery Prices												
	ULG95	UGR91	Gasohol 95			Gasohol 91	Kerosene	HSD 0.035%S	HSD B5	LSD	FO 1500 (2%S)	LPG (B./Kg.)
			(E10)	(E20)	(E85)							
2005												
Jan	11.61	10.93					12.54	12.59		12.49	7.39	12.29
Feb	13.03	12.67					13.21	13.15		13.03	7.68	12.16
Mar	15.06	14.58					15.92	15.59		15.15	8.11	12.14
Apr	15.83	15.35					17.73	16.63		16.24	8.23	12.44
May	14.30	13.86					16.55	15.59		15.19	8.15	12.49
Jun	16.84	16.21					18.20	18.52		18.11	10.40	13.27
Jul	17.30	16.74					18.51	18.90		18.45	9.90	13.13
Aug	19.47	18.97					19.11	19.03		18.36	11.73	13.03
Sep	20.87	20.33					20.77	20.16		19.73	13.01	12.97
Oct	18.08	17.59					19.46	19.02		18.72	12.50	12.94
Nov	16.33	15.82					17.19	16.84		16.41	11.97	12.95
Dec	16.36	15.95					18.51	17.44		16.83	11.70	12.99
AVG	16.26	15.75					17.31	16.95		16.56	10.06	12.73
2006												
Jan	16.37	16.01	17.59				18.76	17.38		16.81	12.11	12.33
Feb	16.68	16.19	17.11				18.90	17.25		16.75	13.23	12.56
Mar	17.61	17.13	17.98				18.85	18.49		17.93	13.14	12.35
Apr	19.84	19.37	20.41				20.57	20.48		20.00	14.31	12.12
May	21.12	20.64	21.56				20.79	20.78		20.34	13.50	11.94
Jun	20.41	19.93	21.10				21.12	21.38		20.94	12.94	11.71
Jul	20.84	20.38	21.50				21.33	21.25		20.86	13.37	12.04
Aug	19.60	19.13	20.46				21.54	21.03		20.58	14.07	11.94
Sep	16.01	15.55	17.13				19.35	18.57	17.97	18.10	13.35	11.83
Oct	15.08	14.63	16.23				17.84	17.40	17.78	16.95	11.32	11.84
Nov	14.83	14.38	16.11				17.26	16.69	16.93	16.27	10.36	11.59
Dec	15.74	15.32	16.95				17.76	16.32	16.59	15.91	10.36	11.32
AVG	17.84	17.39	18.68				19.51	18.92	17.32	18.45	12.67	11.96
2007												
Jan	14.40	13.96	15.70				16.15	15.57	31.00	15.17	10.20	11.55
Feb	15.39	14.94	16.07			15.64	16.44	16.41	16.80	16.01	10.89	11.70
Mar	17.30	16.86	17.70			17.43	16.90	16.84	17.22	16.39	11.15	11.51
Apr	18.73	18.35	18.91			18.72	18.19	18.25	18.61	17.79	12.33	11.36
May	19.67	19.25	19.76			19.58	18.26	18.42	18.90	17.97	12.24	11.23
Jun	18.84	18.41	19.01			18.82	18.57	18.41	18.29	17.95	12.66	11.15
Jul	18.50	18.08	18.52			18.31	18.86	18.80	18.42	18.35	13.22	10.97
Aug	16.98	16.56	17.16			16.97	18.51	18.44	18.08	17.99	13.10	10.98
Sep	18.12	17.70	18.19			18.00	19.83	20.10	19.53	19.66	13.68	10.95
Oct	19.46	19.04	19.24			19.05	21.19	21.05	20.47	20.62	15.33	11.01
Nov	21.66	21.24	21.22			21.03	24.43	23.32	23.08	22.91	17.07	10.93
Dec	21.29	20.87	20.88			20.70	23.43	23.13	22.88	22.70	16.18	10.90
AVG	18.36	17.94	18.53			18.57	19.23	19.06	20.27	18.63	13.17	11.19

Table 7.1-1M (Cont.)
Ex-Refinery Prices of Petroleum Products in Thailand

Unit : Baht/Litre

Ex-Refinery Prices												
	ULG95	UGR91	Gasohol 95			Gasohol 91	Kerosene	HSD 0.035%S	HSD B5	LSD	FO 1500 (2%S)	LPG (B./Kg.)
			(E10)	(E20)	(E85)							
2008												
Jan	21.34	20.93	21.12	20.81		20.94	22.59	22.70	22.57	22.23	15.82	10.90
Feb	21.71	21.20	21.36	21.02		21.18	22.87	23.40	23.93	22.63	15.35	11.08
Mar	22.00	21.61	21.71	21.33		21.54	25.16	25.30	26.22	25.00	15.79	11.00
Apr	23.77	23.37	23.32	22.85		23.15	27.99	28.23	28.54	27.60	17.16	11.00
May	26.58	26.18	25.86	25.05		25.68	32.46	32.44	32.60	31.88	19.36	11.00
Jun	29.61	29.19	28.59	27.48		28.41	34.93	35.44	35.58	34.83	21.25	11.00
Jul	28.85	28.43	27.96	26.97		27.77	35.74	35.76	35.96	35.06	24.17	11.00
Aug	25.04	24.62	24.53	23.92		24.34	29.74	29.00	29.21	28.27	22.50	11.00
Sep	23.47	23.04	23.11	22.67		22.92	26.54	26.33	26.44	25.70	19.98	11.00
Oct	17.75	17.33	18.39	18.92		18.20	19.99	19.13	19.32	18.50	14.09	11.00
Nov	11.24	10.81	12.53	13.72		12.34	16.84	15.93	16.09	15.35	9.02	11.00
Dec	9.43	8.99	10.89	12.26		10.70	13.27	13.57	13.83	12.94	8.41	11.00
AVG	21.73	21.31	21.62	21.42		21.43	25.68	25.60	25.86	25.00	16.91	10.99
2009												
Jan	11.85	11.39	12.58	13.21		12.39	13.39	13.50	13.84	12.86	9.29	11.00
Feb	13.29	12.86	13.88	14.37	16.60	13.69	12.09	11.81	12.21	11.15	9.52	11.00
Mar	12.61	12.17	13.27	13.83	16.49	13.08	12.35	12.61	13.05	11.96	9.26	11.00
Apr	13.91	13.48	14.44	14.87	16.69	14.25	13.57	13.82	14.16	13.23	10.66	11.00
May	15.17	14.74	15.71	16.15	18.08	15.52	14.30	14.81	15.27	14.15	12.20	11.00
Jun	16.91	16.49	17.43	17.84	19.62	17.24	16.78	17.20	17.62	16.56	13.85	11.00
Jul	15.90	15.48	16.57	17.15	19.98	16.39	15.85	16.01	16.37	15.40	13.84	11.00
Aug	18.34	17.42	18.83	19.22	20.85	18.20	17.17	17.62	17.92	17.05	14.93	11.00
Sep	17.10	16.18	17.60	18.01	19.74	16.97	16.33	16.77	17.11	16.17	14.57	11.37
Oct	17.00	16.09	17.52	17.94	19.78	16.89	17.04	17.27	17.52	16.75	14.78	11.30
Nov	17.96	17.06	18.85	19.65	23.92	18.22	18.16	18.32	18.58	17.78	15.67	11.16
Dec	17.88	16.97	18.79	19.60	23.97	18.16	17.73	17.75	18.12	17.14	15.57	11.12
AVG	15.66	15.03	16.29	16.82	19.61	15.92	15.40	15.62	15.98	15.02	12.85	11.08

Table 7.1-2M
Oil Fund Levied on Petroleum Products in Thailand

Unit : Baht/Litre

	(Ex-Refinery)															
	ULG95	UGR91	Gasohol 95			Gasohol 91	Kerosene	HSD 0.05%S	HSD 0.035%S	HSD B5	LSD	FO 1500	LPG (B./Kg.)	LPG (Car) (B./Kg.)		
			(E10)	(E20)	(E85)											
2005	1.28	1.03	0.13		0.16	0.10					-0.92	-1.02	0.06	-2.54	-2.54	
Jan	0.85	0.65	0.16		0.16	0.10					-2.62	-2.79	0.06	-2.22	-2.22	
Feb	0.50	0.30	0.04		0.16	0.10					-3.15	-3.33	0.06	-2.09	-2.09	
Mar	0.50	0.30	0.04		0.16	0.10					-4.40	-4.60	0.06	-2.07	-2.07	
Apr	0.50	0.32	0.04		0.16	0.10					-3.08	-3.28	0.06	-2.37	-2.37	
May	1.07	0.87	0.04		0.16	0.10					-1.97	-2.18	0.06	-2.38	-2.38	
Jun	1.35	1.01	0.04		0.16	0.10					-1.18	-1.38	0.06	-2.68	-2.68	
Jul	1.80	1.16	0.04		0.16	0.10					-0.03	-0.10	0.06	-2.82	-2.82	
Aug	1.50	1.30	0.04		0.16	0.10					0.50	0.50	0.06	-2.30	-2.30	
Sep	1.50	1.30	0.04		0.16	0.10					0.50	0.50	0.06	-2.90	-2.90	
Oct	1.50	1.30	0.04		0.16	0.10					0.65	0.65	0.06	-2.87	-2.87	
Nov	1.75	1.55	0.07		0.16	0.10					1.77	1.77	0.06	-2.88	-2.88	
Dec	2.48	2.28	0.92		0.16	0.10					2.00	2.00	0.06	-2.92	-2.92	
2006	2.70	2.50	0.84		0.84	0.10					1.47	0.41	1.47	0.06	-1.93	-1.93
Jan	2.50	2.30	0.94		0.94	0.10					2.00	2.00	0.06	-2.57	-2.57	
Feb	2.50	2.30	0.94		0.94	0.10					2.45	2.45	0.06	-2.35	-2.35	
Mar	2.50	2.30	0.94		0.94	0.10					2.50	2.50	0.06	-2.28	-2.28	
Apr	2.50	2.30	0.54		0.54	0.10					1.72	1.72	0.06	-2.05	-2.05	
May	2.50	2.30	0.54		0.54	0.10					0.95	0.95	0.06	-1.87	-1.87	
Jun	2.50	2.30	0.54		0.54	0.10					0.95	0.95	0.06	-2.02	-2.02	
Jul	2.50	2.30	0.54		0.54	0.10					0.95	0.95	0.06	-1.97	-1.97	
Aug	2.50	2.30	0.54		0.54	0.10					0.95	0.95	0.06	-1.84	-1.84	
Sep	2.50	2.30	0.54		0.54	0.10					0.95	0.07	0.95	0.06	-1.76	-1.76
Oct	2.99	2.79	1.03		1.03	0.10					1.17	0.30	1.17	0.06	-1.72	-1.72
Nov	3.46	3.26	1.50		1.50	0.10					1.50	0.63	1.50	0.06	-1.52	-1.52
Dec	3.46	3.26	1.50		1.50	0.10					1.50	0.63	1.50	0.06	-1.25	-1.25
2007	3.67	3.37	0.85		0.62	0.10					1.39	0.60	1.39	0.06	-1.02	-1.02
Jan	3.46	3.26	1.50		1.50	0.10					1.50	0.63	1.50	0.06	-1.48	-1.48
Feb	3.46	3.26	1.50		1.50	0.10					1.50	0.54	1.50	0.06	-1.63	-1.63
Mar	3.46	3.26	1.26		1.26	0.10					1.50	0.33	1.50	0.06	-1.44	-1.44
Apr	3.46	3.26	1.00		1.00	0.10					1.50	0.30	1.50	0.06	-1.29	-1.29
May	3.46	3.26	0.75		0.75	0.10					1.50	0.30	1.50	0.06	-1.16	-1.16
Jun	3.46	3.26	0.60		0.60	0.10					1.50	0.93	1.50	0.06	-1.08	-1.08
Jul	3.47	3.27	0.60		0.26	0.10					1.50	1.00	1.50	0.06	-0.90	-0.90
Aug	3.83	3.57	0.78		0.28	0.10					1.50	1.00	1.50	0.06	-0.91	-0.91
Sep	4.00	3.70	0.90		0.40	0.10					1.50	1.00	1.50	0.06	-0.89	-0.89
Oct	4.00	3.70	0.70		0.20	0.10					1.50	0.99	1.50	0.06	-0.89	-0.89
Nov	4.00	3.35	0.35		-0.15	0.10					1.03	0.23	1.03	0.06	-0.83	-0.83
Dec	4.00	3.30	0.30		-0.20	0.10					0.70	-0.10	0.70	0.06	0.30	0.30

Table 7.1-2M (Cont.)
Oil Fund Levied on Petroleum Products in Thailand

Unit : Baht/Litre

	(Ex-Refinery)													
	ULG95	UGR91	Gasohol 95			Gasohol 91	Kerosene	HSD 0.05%S	HSD 0.035%S	HSD B5	LSD	FO 1500	LPG (B./Kg.)	LPG (Car) (B./Kg.)
			(E10)	(E20)	(E85)									
2008	3.78	3.31	0.77	-0.21		0.28	0.10		0.40	-0.68	0.31	0.06	0.30	0.30
Jan	3.58	2.95	0.22	-0.32		-0.28	0.10		0.36	-0.12	0.36	0.06	0.30	0.30
Feb	3.45	3.00	0.25	-0.30		-0.25	0.10		0.10	-1.02	0.10	0.06	0.30	0.30
Mar	3.45	3.00	0.25	-0.30		-0.25	0.10		-0.15	-1.07	-0.15	0.06	0.30	0.30
Apr	3.45	3.00	0.25	-0.30		-0.25	0.10		-0.30	-1.50	-0.30	0.06	0.30	0.30
May	3.45	3.00	0.25	-0.30		-0.25	0.10		-0.30	-1.50	-0.30	0.06	0.30	0.30
Jun	3.45	3.00	0.25	-0.30		-0.25	0.10		-0.30	-1.50	-0.30	0.06	0.30	0.30
Jul	3.45	3.00	0.25	-0.30		-0.25	0.10		-0.30	-1.50	-0.30	0.06	0.30	0.30
Aug	3.54	3.09	0.34	-0.21		0.16	0.10		0.18	1.22	0.18	0.06	0.30	0.30
Sep	3.96	3.66	0.93	0.25		0.43	0.10		0.78	-0.62	0.78	0.06	0.30	0.30
Oct	4.00	4.00	1.58	0.27		1.05	0.10		1.31	-0.20	1.20	0.06	0.30	0.30
Nov	4.00	4.00	2.35	0.15		1.75	0.10		1.70	-0.20	1.20	0.06	0.30	0.30
Dec	5.55	4.00	2.35	-0.80		1.75	0.10		1.70	-0.20	1.20	0.06	0.30	0.30
2009	6.94	5.31	1.78	-0.80	-7.88	1.17	0.10		0.78	-0.95	1.20	0.06	0.22	0.22
Jan	7.00	4.00	2.35	-0.30		1.75	0.10		1.70	-0.20	1.20	0.06	0.30	0.30
Feb	7.00	4.00	-0.49	-2.59	-6.50	-1.09	0.10		0.07	-0.63	1.20	0.06	0.30	0.30
Mar	7.00	5.17	1.91	-0.51	-5.70	1.31	0.10		0.75	-0.20	1.20	0.06	0.30	0.30
Apr	7.00	5.70	2.35	-0.30	-5.70	1.75	0.10		1.70	-0.20	1.20	0.06	0.30	0.30
May	5.93	4.63	1.41	-1.12	-7.91	0.81	0.10		0.59	-1.85	1.20	0.06	0.30	0.30
Jun	5.36	4.06	0.86	-1.57	-7.84	0.10	0.10		-0.01	-2.70	1.20	0.06	0.30	0.30
Jul	6.65	5.35	1.67	-0.94	-7.22	1.07	0.10		1.14	-1.18	1.20	0.06	0.30	0.30
Aug	7.29	5.99	2.27	-0.46	-7.13	1.67	0.10		1.02	-0.57	1.20	0.06	0.30	0.30
Sep	7.50	6.20	2.27	-0.46	-7.76	1.67	0.10		0.84	-1.43	1.20	0.06	-0.07	-0.07
Oct	7.50	6.20	2.27	-0.46	-10.30	1.67	0.10		0.53	-0.81	1.20	0.06	0.00	0.00
Nov	7.50	6.20	2.27	-0.46	-10.30	1.67	0.10		0.53	-0.81	1.20	0.06	0.14	0.14
Dec	7.50	6.20	2.27	-0.46	-10.30	1.67	0.10		0.53	-0.81	1.20	0.06	0.18	0.18

Table 7.1-3M
Retail Prices of Petroleum Products in Bangkok

Unit : Baht/Litre

Products	1. Gasoline			2. Kerosene		3. Diesel		4. Fuel Oil			5. LPG		
	ULG95	UGR91	(E10)	Gasohol 95 (E20)	Gasohol 91 (E85)	HSD	B5	LSD	600 (2%S)	1500 (2%S)	Large, Small	Automobile	(Baht/L) (Baht/L)
2005 (MIN)	23.89	23.09				22.06	20.01	17.14	13.75	13.10	16.81	16.81	9.09
(WT.AVG)	23.90	23.10				24.51	20.03	18.18	15.83	15.09	16.81	16.81	9.09
(MAX)	23.91	23.11				25.71	20.05	19.91	17.30	16.86	16.81	16.81	9.09
-Jan (MIN)	19.37	18.57				18.20	14.59	14.28	11.42	10.59	16.81	16.81	9.09
(WT.AVG)	19.37	18.57				21.10	14.59	14.37	12.30	11.50	16.81	16.81	9.09
(MAX)	19.37	18.57				22.03	14.59	14.45	13.02	12.54	16.81	16.81	9.09
-Feb (MIN)	20.13	19.30				18.20	14.76	14.28	11.93	11.36	16.81	16.81	9.09
(WT.AVG)	20.13	19.30				21.14	14.76	14.37	12.74	12.05	16.81	16.81	9.09
(MAX)	20.13	19.30				22.03	14.76	14.45	13.64	13.16	16.81	16.81	9.09
-Mar (MIN)	21.91	21.11				19.49	16.06	15.77	12.02	11.52	16.81	16.81	9.09
(WT.AVG)	21.91	21.11				22.56	16.06	16.08	13.33	13.04	16.81	16.81	9.09
(MAX)	21.91	21.11				23.33	16.06	16.37	14.36	14.41	16.81	16.81	9.09
-Apr (MIN)	22.74	21.94				20.11	18.19	17.90	12.02	11.52	16.81	16.81	9.09
(WT.AVG)	22.74	21.98				23.85	18.19	18.21	14.70	14.45	16.81	16.81	9.09
(MAX)	22.81	22.01				25.41	18.19	18.50	16.60	16.12	16.81	16.81	9.09
-May (MIN)	22.40	21.60				19.67	18.19	17.90	12.02	11.52	16.81	16.81	9.09
(WT.AVG)	22.40	21.60				23.71	18.19	18.21	14.80	14.59	16.81	16.81	9.09
(MAX)	22.40	21.60				25.80	18.19	18.50	16.76	16.28	16.81	16.81	9.09
-Jun (MIN)	23.17	22.37				19.99	19.19	17.92	12.02	11.52	16.81	16.81	9.09
(WT.AVG)	23.17	22.37				23.88	19.37	18.51	14.72	14.34	16.81	16.81	9.09
(MAX)	23.17	22.37				26.05	19.48	19.12	17.09	16.61	16.81	16.81	9.09
-Jul (MIN)	25.52	24.72				20.11	22.39	17.93	12.02	11.52	16.81	16.81	9.09
(WT.AVG)	25.56	24.75				24.33	22.49	19.48	15.37	15.12	16.81	16.81	9.09
(MAX)	25.57	24.77				26.74	22.54	22.08	18.09	17.61	16.81	16.81	9.09
-Aug (MIN)	26.05	25.25				23.98	22.90	17.93	15.23	14.39	16.81	16.81	9.09
(WT.AVG)	26.05	25.25				24.56	22.90	19.68	17.26	16.06	16.81	16.81	9.09
(MAX)	26.05	25.25				27.12	22.90	22.74	18.44	17.96	16.81	16.81	9.09
-Sep (MIN)	27.35	26.55				26.53	23.84	17.93	16.54	15.86	16.81	16.81	9.09
(WT.AVG)	27.38	26.58				27.43	23.86	19.93	18.73	17.57	16.81	16.81	9.09
(MAX)	27.40	26.60				27.86	23.87	23.58	20.01	19.53	16.81	16.81	9.09
-Oct (MIN)	27.17	26.37				26.91	24.05	17.93	16.57	15.79	16.81	16.81	9.09
(WT.AVG)	27.18	26.38				27.55	24.05	19.99	18.74	17.53	16.81	16.81	9.09
(MAX)	27.19	26.39				27.96	24.05	23.76	20.01	19.52	16.81	16.81	9.09
-Nov (MIN)	25.44	24.64				26.17	22.94	17.93	16.48	15.70	16.81	16.81	9.09
(WT.AVG)	25.44	24.64				27.17	22.94	19.66	18.58	17.39	16.81	16.81	9.09
(MAX)	25.44	24.64				26.67	22.94	22.68	19.80	19.32	16.81	16.81	9.09
-Dec (MIN)	25.46	24.66				25.36	23.01	17.93	16.69	15.91	16.81	16.81	9.09
(WT.AVG)	25.46	24.66				26.79	23.01	19.67	18.63	17.49	16.81	16.81	9.09
(MAX)	25.46	24.66				27.56	23.01	22.72	19.76	19.28	16.81	16.81	9.09

Table 7.1-3M (Cont.)
Retail Prices of Petroleum Products in Bangkok

Unit : Baht/Litre

Products	1. Gasoline		2. Kerosene		3. Diesel		4. Fuel Oil		5. LPG			
	ULG95	UGR91	Gasohol 95 (E10)	Gasohol 91 (E85)	HSD	B5	LSD	600 (2%S)	1500 (2%S)	Large, Small	Automobile	(Baht/L) Automobile
2006 (MIN)	27.54	26.75			25.56	25.06	25.37	17.22	16.35	16.81	16.81	9.09
(WT.AVG)	27.58	26.79			25.59	25.09	25.37	18.11	17.29	16.81	16.81	9.09
(MAX)	27.66	26.86			25.61	25.18	25.37	19.27	18.79	16.81	16.81	9.09
-Jan (MIN)	26.67	25.92			24.17	23.65	23.88	17.19	16.41	16.81	16.81	9.09
(WT.AVG)	26.72	25.92			24.17	23.67	23.88	18.97	17.87	16.81	16.81	9.09
(MAX)	26.72	25.92			24.17	23.67	23.88	20.01	19.53	16.81	16.81	9.09
-Feb (MIN)	26.51	25.71			24.42	23.92	24.13	17.21	16.38	16.81	16.81	9.09
(WT.AVG)	26.51	25.71			24.42	23.92	24.13	18.74	17.63	16.81	16.81	9.09
(MAX)	26.51	25.71			24.42	23.92	24.13	20.54	20.06	16.81	16.81	9.09
-Mar (MIN)	26.89	26.09			25.35	24.85	25.07	17.30	16.44	16.81	16.81	9.09
(WT.AVG)	26.90	26.10			25.36	24.85	25.07	18.47	17.43	16.81	16.81	9.09
(MAX)	26.90	26.10			25.36	24.86	25.07	20.32	19.84	16.81	16.81	9.09
-Apr (MIN)	27.94	27.14			26.19	25.69	26.03	17.64	16.78	16.81	16.81	9.09
(WT.AVG)	28.02	27.22			26.27	25.71	26.03	18.59	17.62	16.81	16.81	9.09
(MAX)	28.06	27.26			26.31	25.81	26.03	20.22	19.74	16.81	16.81	9.09
-May (MIN)	28.99	28.19			26.45	25.84	26.19	17.73	16.87	16.81	16.81	9.09
(WT.AVG)	29.11	28.31			26.45	25.88	26.19	18.61	17.68	16.81	16.81	9.09
(MAX)	29.19	28.39			26.54	26.04	26.19	20.08	19.60	16.81	16.81	9.09
-Jun (MIN)	29.62	28.82			27.26	26.79	27.15	17.48	16.62	16.81	16.81	9.09
(WT.AVG)	29.69	28.89			27.33	26.83	27.15	18.39	17.48	16.81	16.81	9.09
(MAX)	29.80	29.00			27.35	27.00	27.15	19.81	19.33	16.81	16.81	9.09
-Jul (MIN)	29.97	29.17			27.73	27.23	27.63	17.82	16.69	16.81	16.81	9.09
(WT.AVG)	30.07	29.27			27.79	27.31	27.63	18.50	17.66	16.81	16.81	9.09
(MAX)	30.11	29.31			27.82	27.62	27.63	19.52	19.04	16.81	16.81	9.09
-Aug (MIN)	29.65	28.92			27.54	27.04	27.35	17.90	17.04	16.81	16.81	9.09
(WT.AVG)	29.67	28.94			27.55	27.11	27.35	18.43	17.64	16.81	16.81	9.09
(MAX)	29.86	29.12			27.60	27.40	27.35	19.18	18.70	16.81	16.81	9.09
-Sep (MIN)	26.87	26.07			26.05	25.55	25.86	16.66	15.81	16.81	16.81	9.09
(WT.AVG)	26.88	26.08			26.05	25.58	25.86	17.27	16.50	16.81	16.81	9.09
(MAX)	27.14	26.34			26.05	25.70	25.86	17.95	17.47	16.81	16.81	9.09
-Oct (MIN)	25.64	24.84			24.19	23.69	24.00	16.66	15.81	16.81	16.81	9.09
(WT.AVG)	25.64	24.84			24.19	23.69	24.00	17.22	16.44	16.81	16.81	9.09
(MAX)	25.72	24.92			24.19	23.69	24.00	17.95	17.47	16.81	16.81	9.09
-Nov (MIN)	25.54	24.74			23.87	23.37	23.68	16.63	15.78	16.81	16.81	9.09
(WT.AVG)	25.55	24.75			23.87	23.37	23.68	17.19	16.40	16.81	16.81	9.09
(MAX)	25.69	24.89			23.87	23.37	23.68	17.92	17.44	16.81	16.81	9.09
-Dec (MIN)	26.19	25.39			23.62	23.12	23.43	16.40	15.55	16.81	16.81	9.09
(WT.AVG)	26.19	25.39			23.62	23.12	23.43	16.96	17.17	16.81	16.81	9.09
(MAX)	26.19	25.39			23.63	23.12	23.43	17.69	17.21	16.81	16.81	9.09

**Table 7.1-3M (Cont.)
Retail Prices of Petroleum Products in Bangkok**

Unit : Baht/Litre

Products	1. Gasoline			2. Kerosene		3. Diesel		4. Fuel Oil			5. LPG		
	ULG95	UGR91	Gasohol 95		Gasohol 91	HSD	B5	LSD	600 (2%S)	1500 (2%S)	(Baht/KG)		
			(E20)	(E85)							Large,Small	Automobile	
	(E10)	(E20)	(E85)								Automobile	(Baht/L)	
2007 (MIN)	29.18	28.32	26.17	25.76	26.01	25.66	24.95	25.45	18.48	17.66	16.91	16.91	9.14
(WT.AVG)	29.18	28.32	26.17	25.76	26.01	25.66	24.95	25.45	18.48	17.66	16.91	16.91	9.14
(MAX)	29.23	28.35	26.25	25.76	30.50	25.67	24.95	25.45	20.67	20.19	16.91	16.91	9.14
-Jan (MIN)	25.71	24.91	24.21	25.24	25.24	22.76	22.26	22.57	16.51	15.66	16.81	16.81	9.09
(WT.AVG)	25.71	24.91	24.21	26.96	26.96	22.76	22.26	22.57	17.01	16.21	16.81	16.81	9.09
(MAX)	25.93	25.13	24.43	29.03	29.03	22.76	22.26	22.57	17.80	17.32	16.81	16.81	9.09
-Feb (MIN)	25.63	24.83	23.90	23.39	24.96	23.10	22.60	22.91	15.73	14.87	16.81	16.81	9.09
(WT.AVG)	25.63	24.83	23.90	23.39	26.82	23.10	22.60	22.91	16.99	16.09	16.81	16.81	9.09
(MAX)	25.65	24.85	24.10	23.39	29.03	23.10	22.60	22.91	18.51	18.03	16.81	16.81	9.09
-Mar (MIN)	27.34	26.54	25.12	24.80	24.96	23.62	22.96	23.43	16.22	15.36	16.81	16.81	9.09
(WT.AVG)	27.34	26.54	25.12	24.80	27.32	23.62	22.96	23.43	17.42	16.49	16.81	16.81	9.09
(MAX)	27.34	26.54	25.12	24.80	29.07	23.62	22.96	23.43	19.00	18.52	16.81	16.81	9.09
-Apr (MIN)	28.68	27.88	26.18	25.88	24.96	24.83	24.13	24.64	17.33	16.48	16.81	16.81	9.09
(WT.AVG)	28.68	27.88	26.18	25.88	27.98	24.83	24.13	24.64	18.39	17.42	16.81	16.81	9.09
(MAX)	28.68	27.88	26.18	25.88	29.39	24.83	24.13	24.64	20.11	19.63	16.81	16.81	9.09
-May (MIN)	29.99	29.19	26.86	26.56	24.96	25.34	24.64	25.15	17.76	16.91	16.81	16.81	9.09
(WT.AVG)	29.99	29.19	26.86	26.56	28.10	25.34	24.64	25.15	18.75	17.76	16.81	16.81	9.09
(MAX)	29.99	29.19	26.86	26.56	29.57	25.34	24.64	25.15	20.54	20.06	16.81	16.81	9.09
-Jun (MIN)	30.00	29.20	26.70	26.40	24.96	25.34	24.64	25.15	17.92	17.07	16.81	16.81	9.09
(WT.AVG)	30.01	29.21	26.71	26.40	28.20	25.34	24.64	25.15	18.91	17.92	16.81	16.81	9.09
(MAX)	30.10	29.30	27.09	26.40	29.91	25.34	24.64	25.15	20.70	20.22	16.81	16.81	9.09
-Jul (MIN)	29.85	29.05	26.39	25.75	25.28	25.61	24.91	25.15	18.37	17.60	16.81	16.81	9.09
(WT.AVG)	29.85	29.05	26.39	25.75	29.00	25.61	24.91	25.15	19.39	18.41	16.81	16.81	9.09
(MAX)	29.85	29.05	26.46	25.75	30.55	25.61	24.91	25.15	21.15	20.67	16.81	16.81	9.09
-Aug (MIN)	28.53	27.73	25.03	24.23	25.36	25.44	24.74	25.25	18.49	17.65	16.81	16.81	9.09
(WT.AVG)	28.53	27.73	25.03	24.23	29.04	25.44	24.74	25.25	19.53	18.55	16.81	16.81	9.09
(MAX)	28.53	27.73	25.03	24.23	30.65	25.44	24.74	25.25	21.28	20.80	16.81	16.81	9.09
-Sep (MIN)	29.39	28.59	25.89	25.09	26.03	26.58	25.88	26.39	18.55	17.70	16.81	16.81	9.09
(WT.AVG)	29.39	28.59	25.89	25.09	29.43	26.58	25.88	26.39	19.57	18.63	16.81	16.81	9.09
(MAX)	29.39	28.59	25.89	25.09	30.94	26.58	25.88	26.39	21.18	20.70	16.81	16.81	9.09
-Oct (MIN)	30.31	29.51	26.81	26.01	26.88	27.47	26.76	27.28	19.90	19.04	16.81	16.81	9.09
(WT.AVG)	30.31	29.51	26.81	26.01	30.27	27.47	26.76	27.28	20.43	19.61	16.81	16.81	9.09
(MAX)	30.31	29.51	26.81	26.01	31.50	27.47	26.76	27.28	21.28	20.80	16.81	16.81	9.09
-Nov (MIN)	32.07	31.03	28.33	27.45	28.75	28.78	27.78	28.63	22.49	21.91	16.81	16.81	9.09
(WT.AVG)	32.08	31.04	28.34	27.45	31.97	28.80	27.78	28.63	22.99	22.24	16.81	16.81	9.09
(MAX)	32.14	31.09	28.37	27.45	33.07	28.84	27.78	28.63	23.40	22.92	16.81	16.81	9.09
-Dec (MIN)	32.62	31.32	28.62	27.82	29.74	29.07	28.07	28.88	22.50	21.72	18.01	18.01	9.73
(WT.AVG)	32.67	31.32	28.62	27.82	32.17	29.07	28.07	28.88	22.79	22.05	18.01	18.01	9.73
(MAX)	32.79	31.32	28.62	27.82	33.34	29.07	28.07	28.88	23.14	22.66	18.01	18.01	9.73

Table 7.1-3M (Cont.)
Retail Prices of Petroleum Products in Bangkok

Unit : Baht/Litre

Products	1. Gasoline			2. Kerosene		3. Diesel		4. Fuel Oil			5. LPG	
	ULG95	UGR91	(E10) Gasohol 95 (E85)	Gasohol 91	HSD	B5	LSD	600 (2%S)	1500 (2%S)	Large, Small	Automobile	(Baht/L) Automobile
2008 (MIN)	34.86	33.40	28.95	27.36	34.99	30.34	33.20	22.53	21.06	18.13	18.13	9.79
(WT.AVG)	35.33	33.43	28.97	27.37	38.34	30.39	33.20	24.30	22.90	18.13	18.13	9.79
(MAX)	35.89	33.45	29.02	27.37	40.88	30.50	33.20	27.12	26.11	18.13	18.13	9.79
-Jan (MIN)	33.17	31.88	29.17	27.47	30.43	28.44	29.06	20.35	19.78	18.02	18.02	9.73
(WT.AVG)	33.17	31.88	29.17	27.47	32.42	28.44	29.06	21.61	20.87	18.02	18.02	9.73
(MAX)	33.17	31.88	29.17	27.47	33.76	28.44	29.06	22.79	22.37	18.02	18.02	9.73
-Feb (MIN)	32.94	31.84	28.94	26.94	30.61	28.79	29.20	20.37	19.30	18.21	18.21	9.83
(WT.AVG)	32.94	31.84	28.94	26.94	32.44	28.79	29.20	21.64	20.61	18.21	18.21	9.83
(MAX)	32.94	31.84	28.94	26.94	34.14	28.79	29.20	22.81	22.33	18.21	18.21	9.83
-Mar (MIN)	34.01	32.91	30.01	28.01	32.07	29.82	30.56	21.35	20.28	18.13	18.13	9.79
(WT.AVG)	34.05	32.94	30.03	28.01	33.61	29.89	30.56	22.52	21.48	18.13	18.13	9.79
(MAX)	34.15	32.96	30.06	28.01	35.27	29.96	30.56	23.61	23.13	18.13	18.13	9.79
-Apr (MIN)	35.31	34.21	31.31	29.31	34.31	31.29	32.30	22.16	21.01	18.13	18.13	9.79
(WT.AVG)	35.40	34.27	31.36	29.31	35.48	31.36	32.30	23.36	22.26	18.13	18.13	9.79
(MAX)	35.42	34.32	31.42	29.31	37.17	31.57	32.30	24.53	23.97	18.13	18.13	9.79
-May (MIN)	38.18	37.10	34.18	32.18	33.88	33.89	36.13	23.46	21.97	18.13	18.13	9.79
(WT.AVG)	38.26	37.12	34.19	32.18	33.38	34.75	36.13	25.11	23.58	18.13	18.13	9.79
(MAX)	39.01	37.15	34.25	32.18	33.43	35.32	36.13	26.83	25.92	18.13	18.13	9.79
-Jun (MIN)	41.43	40.33	36.73	35.15	42.53	40.16	41.52	25.41	23.62	18.13	18.13	9.79
(WT.AVG)	41.64	40.40	36.80	35.17	43.11	40.29	41.52	27.09	25.28	18.13	18.13	9.79
(MAX)	42.34	40.51	37.07	35.19	45.31	40.46	41.52	28.79	27.63	18.13	18.13	9.79
-Jul (MIN)	42.04	40.83	36.35	35.05	44.70	41.72	43.68	28.99	27.06	18.13	18.13	9.79
(WT.AVG)	42.69	40.90	36.41	35.10	45.49	41.90	43.68	30.49	28.46	18.13	18.13	9.79
(MAX)	43.35	40.98	36.50	35.16	48.34	42.01	43.68	32.55	31.22	18.13	18.13	9.79
-Aug (MIN)	38.24	36.84	29.34	28.04	40.82	33.68	37.48	28.26	26.39	18.13	18.13	9.79
(WT.AVG)	38.62	36.84	29.34	28.04	42.33	33.68	37.48	29.57	27.52	18.13	18.13	9.79
(MAX)	39.44	36.85	29.35	28.04	47.22	33.71	37.48	31.42	30.08	18.13	18.13	9.79
-Sep (MIN)	37.30	35.82	28.32	27.02	38.81	30.95	34.86	27.67	26.00	18.13	18.13	9.79
(WT.AVG)	37.84	35.87	28.35	27.02	40.99	30.99	34.86	28.60	26.83	18.13	18.13	9.79
(MAX)	38.51	35.92	28.42	27.02	46.03	31.05	34.86	29.99	28.65	18.13	18.13	9.79
-Oct (MIN)	33.90	31.90	25.39	24.25	33.42	25.45	29.48	22.66	20.98	18.13	18.13	9.79
(WT.AVG)	34.42	31.90	25.39	24.25	39.41	25.45	29.48	24.42	22.95	18.13	18.13	9.79
(MAX)	35.16	31.90	25.39	24.25	42.27	25.45	29.48	27.51	26.18	18.13	18.13	9.79
-Nov (MIN)	27.91	25.60	20.64	19.26	28.37	21.02	27.04	15.50	13.79	18.13	18.13	9.79
(WT.AVG)	28.68	25.60	20.64	19.26	38.30	21.02	27.04	19.11	17.93	18.13	18.13	9.79
(MAX)	29.44	25.60	20.64	19.26	39.88	21.02	27.04	27.28	25.90	18.13	18.13	9.79
-Dec (MIN)	23.92	21.54	17.00	15.65	16.17	18.17	27.04	14.22	12.51	18.13	18.13	9.79
(WT.AVG)	26.28	21.54	17.00	15.65	16.17	18.17	27.04	18.10	16.99	18.13	18.13	9.79
(MAX)	27.76	21.54	17.00	15.65	16.17	18.17	27.04	27.28	25.90	18.13	18.13	9.79

Table 7.1-3M (Cont.)
Retail Prices of Petroleum Products in Bangkok

Unit : Baht/Litre

Products	1. Gasoline			2. Kerosene		3. Diesel			4. Fuel Oil			5. LPG	
	ULG95	UGR91	Gasohol 95		Gasohol 91	HSD	B5	LSD	600 (2%S)	1500 (2%S)	5. LPG		
			(E10)	(E20)							(E85)	Large, Small	Automobile
2009 (MIN)	37.23	31.32	27.49	25.39	18.77	26.65	24.75	22.71	18.10	16.39	18.13	18.13	9.79
(WT.AVG)	37.47	31.34	27.50	25.39	18.87	26.69	24.77	22.71	21.18	19.83	18.13	18.13	9.79
(MAX)	38.29	31.36	27.53	25.39	18.96	26.74	24.79	22.73	27.28	25.90	18.13	18.13	9.79
-Jan (MIN)	29.28	21.99	17.44	16.14	15.97	16.64	18.61	17.11	14.22	12.51	18.13	18.13	9.79
(WT.AVG)	30.00	22.07	17.53	16.16	17.13	16.70	18.63	17.14	18.10	16.99	18.13	18.13	9.79
(MAX)	30.59	22.24	17.69	16.18	18.29	16.89	18.73	17.23	27.28	25.90	18.13	18.13	9.79
-Feb (MIN)	33.85	26.23	21.70	20.40	14.69	20.58	19.59	18.09	14.34	12.63	18.13	18.13	9.79
(WT.AVG)	34.41	26.24	21.71	20.40	14.69	20.89	19.59	18.09	18.19	17.08	18.13	18.13	9.79
(MAX)	34.85	26.25	21.73	20.40	14.69	20.93	19.59	18.09	27.28	25.90	18.13	18.13	9.79
-Mar (MIN)	34.22	27.34	23.38	21.53	15.48	22.58	20.78	18.45	14.39	12.68	18.13	18.13	9.79
(WT.AVG)	34.44	27.36	23.39	21.53	15.48	22.58	20.99	18.48	18.24	17.12	18.13	18.13	9.79
(MAX)	35.84	27.41	23.45	21.53	15.48	22.65	21.07	18.50	27.28	25.90	18.13	18.13	9.79
-Apr (MIN)	36.05	29.45	25.65	23.35	19.95	24.85	23.05	20.05	15.29	13.58	18.13	18.13	9.79
(WT.AVG)	36.20	29.45	25.65	23.35	19.95	24.85	23.05	20.05	18.95	17.78	18.13	18.13	9.79
(MAX)	37.23	29.45	25.65	23.35	19.95	24.85	23.05	20.05	27.28	25.90	18.13	18.13	9.79
-May (MIN)	37.26	30.64	26.84	24.54	18.33	25.93	23.82	20.82	16.65	14.94	18.13	18.13	9.79
(WT.AVG)	37.40	30.66	26.86	24.54	18.33	26.02	23.84	20.84	20.03	18.77	18.13	18.13	9.79
(MAX)	38.26	30.66	26.86	24.54	18.33	26.06	23.84	20.84	27.28	25.90	18.13	18.13	9.79
-Jun (MIN)	38.82	32.72	28.92	26.62	19.62	28.12	26.68	23.81	18.88	17.17	18.13	18.13	9.79
(WT.AVG)	38.93	32.72	28.92	26.62	19.62	28.12	26.68	23.81	21.80	20.40	18.13	18.13	9.79
(MAX)	39.94	32.72	28.92	26.62	19.62	28.12	26.68	23.83	27.28	25.90	18.13	18.13	9.79
-Jul (MIN)	38.30	33.00	29.39	27.09	20.63	28.59	26.96	24.16	19.48	17.77	18.13	18.13	9.79
(WT.AVG)	38.46	33.00	29.39	27.09	20.63	28.59	26.96	24.16	22.27	20.84	18.13	18.13	9.79
(MAX)	39.17	33.00	29.39	27.09	20.63	28.59	26.96	24.16	27.28	25.90	18.13	18.13	9.79
-Aug (MIN)	40.20	35.38	31.78	29.48	22.49	30.98	28.17	26.30	20.64	18.93	18.13	18.13	9.79
(WT.AVG)	40.39	35.40	31.80	29.48	22.49	30.99	28.18	26.31	23.19	21.68	18.13	18.13	9.79
(MAX)	41.20	35.43	31.83	29.48	22.49	31.03	28.19	26.35	27.28	25.90	18.13	18.13	9.79
-Sep (MIN)	39.50	34.70	31.10	28.78	21.92	30.30	26.83	25.40	20.27	18.56	18.13	18.13	9.79
(WT.AVG)	39.68	34.70	31.10	28.78	21.92	30.33	26.83	25.40	22.90	21.42	18.13	18.13	9.79
(MAX)	40.50	34.70	31.10	28.78	21.92	30.38	26.83	25.40	27.28	25.90	18.13	18.13	9.79
-Oct (MIN)	38.91	34.08	30.48	28.18	18.72	29.68	26.66	25.26	27.04	18.72	18.13	18.13	9.79
(WT.AVG)	39.09	34.08	30.48	28.18	18.72	29.68	26.67	25.26	23.02	21.53	18.13	18.13	9.79
(MAX)	39.88	34.08	30.48	28.18	18.72	29.68	26.69	25.29	27.28	25.90	18.13	18.13	9.79
-Nov (MIN)	40.34	35.34	31.74	29.44	18.72	30.94	27.16	26.79	21.29	19.58	18.13	18.13	9.79
(WT.AVG)	40.48	35.34	31.74	29.44	18.72	30.94	27.33	26.79	23.71	22.16	18.13	18.13	9.79
(MAX)	41.14	35.34	31.74	29.44	18.72	30.94	27.33	26.79	27.28	25.90	18.13	18.13	9.79
-Dec (MIN)	40.02	35.02	31.42	29.12	18.72	30.62	27.63	26.23	21.28	19.57	18.13	18.13	9.79
(WT.AVG)	40.16	35.03	31.42	29.12	18.72	30.63	27.63	26.23	23.70	22.15	18.13	18.13	9.79
(MAX)	40.82	35.07	31.47	29.12	18.72	30.74	27.67	26.27	27.28	25.90	18.13	18.13	9.79



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APPENDIX I

Chapter 8

AIR POLLUTION EMISSION IN THE ENERGY SECTOR

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บทที่ 8

การปล่อยมลพิษทางอากาศในภาคพลังงาน

Table 8.1-1M
CO₂ Emission by Energy Type

Unit : 1,000 Tons

	Oil	Coal/Lignite	Natural Gas	Total
2005				
Jan	7,629	4,068	4,274	15,971
Feb	7,628	3,624	4,157	15,409
Mar	8,256	4,414	4,662	17,332
Apr	7,870	4,105	4,234	16,209
May	8,245	4,198	4,837	17,280
Jun	7,847	4,171	4,492	16,510
Jul	7,155	4,169	4,531	15,856
Aug	7,438	3,860	4,684	15,981
Sep	7,022	3,907	4,470	15,399
Oct	7,128	3,905	4,493	15,527
Nov	6,999	3,909	4,450	15,359
Dec	7,532	4,003	4,119	15,654
YTD	90,750	48,333	53,404	192,486
2006				
Jan	7,468	3,976	4,226	15,670
Feb	7,331	3,885	4,016	15,232
Mar	8,099	4,242	4,862	17,203
Apr	7,433	3,685	4,344	15,462
May	7,637	4,212	4,854	16,703
Jun	7,377	4,098	4,630	16,105
Jul	7,184	4,179	4,726	16,089
Aug	7,063	4,443	4,729	16,235
Sep	6,629	4,480	4,565	15,674
Oct	6,756	4,626	4,658	16,040
Nov	6,993	4,562	4,636	16,190
Dec	7,240	4,924	4,367	16,531
YTD	87,210	51,313	54,613	193,136
2007				
Jan	7,212	5,108	4,503	16,823
Feb	6,709	4,557	4,274	15,540
Mar	7,584	4,858	5,172	17,614
Apr	7,072	4,938	4,697	16,706
May	7,024	4,461	5,113	16,598
Jun	7,096	4,509	5,062	16,667
Jul	6,797	4,978	5,023	16,798
Aug	7,063	5,448	5,079	17,590
Sep	6,759	4,572	4,865	16,196
Oct	7,111	4,831	5,016	16,958
Nov	6,939	4,592	4,767	16,299
Dec	7,213	4,777	4,661	16,651
YTD	84,577	57,629	58,232	200,439

Table 8.1-1M (Cont.)
CO₂ Emission by Energy Type

Unit : 1,000 Tons

	Oil	Coal/Lignite	Natural Gas	Total
2008				
Jan	7,090	5,435	4,831	17,355
Feb	6,576	5,182	4,737	16,495
Mar	7,264	5,420	5,249	17,933
Apr	7,119	5,518	4,901	17,537
May	6,740	5,479	5,580	17,800
Jun	6,085	5,315	5,400	16,800
Jul	5,904	5,142	5,745	16,790
Aug	6,165	5,101	5,720	16,987
Sep	5,928	5,243	5,395	16,566
Oct	6,336	5,185	5,541	17,062
Nov	6,218	4,694	4,930	15,842
Dec	6,979	4,440	4,594	16,013
YTD	78,403	62,154	62,624	203,181
2009				
Jan	7,202	4,974	4,384	16,560
Feb	6,169	4,508	4,804	15,482
Mar	6,936	4,954	5,637	17,526
Apr	6,685	5,607	5,204	17,496
May	6,981	5,444	5,688	18,114
Jun	6,372	5,802	5,680	17,854
Jul	6,520	5,635	5,629	17,784
Aug	6,455	5,261	5,787	17,503
Sep	6,258	5,304	5,831	17,393
Oct	6,652	4,734	6,031	17,418
Nov	6,457	4,930	5,772	17,159
Dec	7,339	5,250	5,597	18,187
YTD	80,027	62,404	66,045	208,476
Growth Rate (%)				
2006	-3.9	6.2	2.3	0.3
2007	-3.0	12.3	6.6	3.8
2008	-7.3	7.9	7.5	1.4
2009	2.1	0.4	5.5	2.6

Notes: 1. CO₂ Emission Factors Reference from IPCC2006

2. Emission Estimation Excluded Bunker Oil for Overseas, Jet Oil for International Flight and Renewable Energy

Table 8.1-2M
CO₂ Emission from Energy Consumption by Sector

Unit : 1,000 Tons

	Power Generation	Transport	Industry	Other	Total
2005					
Jan	6,062	5,013	3,555	1,341	15,971
Feb	5,761	4,964	3,396	1,288	15,409
Mar	6,683	5,213	4,032	1,404	17,332
Apr	6,266	4,978	3,656	1,309	16,209
May	6,857	5,205	3,839	1,378	17,280
Jun	6,611	5,019	3,545	1,335	16,510
Jul	6,698	4,399	3,541	1,217	15,856
Aug	6,621	4,708	3,361	1,291	15,981
Sep	6,393	4,294	3,542	1,169	15,399
Oct	6,514	4,344	3,477	1,192	15,527
Nov	6,357	4,508	3,275	1,219	15,359
Dec	6,070	4,875	3,379	1,330	15,654
YTD	76,893	57,520	42,599	15,474	192,486
2006					
Jan	6,161	4,728	3,399	1,382	15,670
Feb	5,857	4,420	3,654	1,301	15,232
Mar	6,841	5,013	3,894	1,454	17,203
Apr	6,267	4,628	3,233	1,334	15,462
May	7,152	4,767	3,376	1,408	16,703
Jun	6,877	4,424	3,489	1,314	16,105
Jul	7,028	4,389	3,358	1,314	16,089
Aug	7,204	4,395	3,299	1,338	16,235
Sep	6,976	4,241	3,186	1,272	15,674
Oct	7,083	4,419	3,225	1,313	16,040
Nov	7,035	4,629	3,160	1,366	16,190
Dec	6,547	4,778	3,783	1,423	16,531
YTD	81,028	54,831	41,057	16,220	193,136
2007					
Jan	6,670	4,784	3,903	1,466	16,823
Feb	6,303	4,400	3,495	1,341	15,540
Mar	7,338	4,986	3,788	1,502	17,614
Apr	6,612	4,637	4,073	1,385	16,706
May	7,328	4,615	3,249	1,407	16,598
Jun	7,450	4,675	3,134	1,408	16,667
Jul	7,407	4,520	3,490	1,380	16,798
Aug	7,246	4,694	4,202	1,448	17,590
Sep	7,256	4,370	3,226	1,344	16,196
Oct	7,261	4,559	3,724	1,414	16,958
Nov	6,710	4,557	3,586	1,446	16,299
Dec	6,499	4,774	3,902	1,476	16,651
YTD	84,080	55,571	43,770	17,017	200,439

Table 8.1-2M (Cont.)
CO₂ Emission from Energy Consumption by Sector

Unit : 1,000 Tons

	Power Generation	Transport	Industry	Other	Total
2008					
Jan	6,996	4,735	4,073	1,552	17,355
Feb	6,730	4,415	3,915	1,436	16,495
Mar	7,410	4,808	4,143	1,572	17,933
Apr	7,169	4,629	4,230	1,509	17,537
May	7,678	4,489	4,130	1,503	17,800
Jun	7,221	4,073	4,134	1,372	16,800
Jul	7,323	3,889	4,228	1,351	16,790
Aug	7,435	4,103	4,058	1,390	16,987
Sep	7,226	3,973	4,019	1,348	16,566
Oct	7,406	4,305	3,917	1,434	17,062
Nov	6,542	4,266	3,626	1,409	15,842
Dec	6,089	4,840	3,522	1,562	16,013
YTD	85,226	52,524	47,993	17,438	203,181
2009					
Jan	6,233	5,012	3,695	1,621	16,560
Feb	6,191	4,291	3,615	1,385	15,482
Mar	7,219	4,882	3,878	1,548	17,526
Apr	6,970	4,699	4,329	1,497	17,496
May	7,352	4,906	4,293	1,563	18,114
Jun	7,417	4,449	4,539	1,449	17,854
Jul	7,399	4,560	4,336	1,489	17,784
Aug	7,250	4,510	4,262	1,480	17,503
Sep	7,238	4,349	4,363	1,443	17,393
Oct	7,220	4,573	4,112	1,513	17,418
Nov	6,820	4,512	4,337	1,490	17,159
Dec	6,700	5,127	4,682	1,678	18,187
YTD	84,008	55,871	50,441	18,157	208,476
Growth Rate (%)					
2006	5.4	-4.7	-3.6	4.8	0.3
2007	3.8	1.4	6.6	4.9	3.8
2008	1.4	-5.5	9.7	2.5	1.4
2009	-1.4	6.4	5.1	4.1	2.6

Notes: 1. CO₂ Emission Factors Reference from IPCC2006

2. Emission Estimation Excluded Bunker Oil for Overseas, Jet Oil for International Flight and Renewable Energy

Table 8.1-3M
CO₂ Emission in Power Generation by Energy Type

Unit : 1,000 Tons

	Oil	Coal/Lignite	Natural Gas	Total
2005				
Jan	448	1,848	3,766	6,062
Feb	495	1,534	3,731	5,761
Mar	604	1,907	4,172	6,683
Apr	586	1,876	3,804	6,266
May	614	1,877	4,366	6,857
Jun	545	2,028	4,037	6,611
Jul	577	2,052	4,070	6,698
Aug	525	1,933	4,163	6,621
Sep	584	1,839	3,970	6,393
Oct	593	1,927	3,994	6,514
Nov	451	1,967	3,939	6,357
Dec	463	1,977	3,629	6,070
YTD	6,485	22,766	47,642	76,893
2006				
Jan	536	1,925	3,700	6,161
Feb	667	1,649	3,541	5,857
Mar	661	1,857	4,322	6,841
Apr	591	1,818	3,858	6,267
May	582	2,286	4,284	7,152
Jun	676	2,110	4,092	6,877
Jul	594	2,258	4,177	7,028
Aug	522	2,542	4,140	7,204
Sep	419	2,546	4,011	6,976
Oct	369	2,662	4,053	7,083
Nov	351	2,658	4,026	7,035
Dec	364	2,411	3,771	6,547
YTD	6,331	26,723	47,975	81,028
2007				
Jan	225	2,646	3,800	6,670
Feb	237	2,422	3,644	6,303
Mar	270	2,553	4,515	7,338
Apr	263	2,303	4,047	6,612
May	245	2,669	4,413	7,328
Jun	249	2,795	4,406	7,450
Jul	209	2,843	4,355	7,407
Aug	217	2,684	4,344	7,246
Sep	271	2,804	4,182	7,256
Oct	302	2,718	4,240	7,261
Nov	230	2,471	4,008	6,710
Dec	234	2,368	3,898	6,499
YTD	2,952	31,276	49,852	84,080

Table 8.1-3M (Cont.)
CO₂ Emission in Power Generation by Energy Type

Unit : 1,000 Tons

	Oil	Coal/Lignite	Natural Gas	Total
2008				
Jan	112	2,860	4,024	6,996
Feb	101	2,685	3,944	6,730
Mar	131	2,884	4,396	7,410
Apr	157	2,967	4,045	7,169
May	107	2,892	4,680	7,678
Jun	86	2,610	4,525	7,221
Jul	90	2,495	4,738	7,323
Aug	94	2,612	4,729	7,435
Sep	86	2,755	4,384	7,226
Oct	85	2,780	4,542	7,406
Nov	77	2,466	3,999	6,542
Dec	84	2,370	3,635	6,089
YTD	1,211	32,376	51,639	85,226
2009				
Jan	87	2,799	3,347	6,233
Feb	80	2,320	3,791	6,191
Mar	82	2,673	4,464	7,219
Apr	75	2,766	4,129	6,970
May	82	2,737	4,533	7,352
Jun	82	2,854	4,481	7,417
Jul	82	2,874	4,442	7,399
Aug	84	2,598	4,568	7,250
Sep	86	2,581	4,571	7,238
Oct	108	2,420	4,692	7,220
Nov	84	2,274	4,462	6,820
Dec	98	2,325	4,277	6,700
YTD	1,030	31,222	51,757	84,008
Growth Rate (%)				
2006	-2.4	17.4	0.7	5.4
2007	-53.4	17.0	3.9	3.8
2008	-59.0	3.5	3.6	1.4
2009	-14.9	-3.6	0.2	-1.4

Notes: 1. CO₂ Emission Factors Reference from IPCC2006

2. Emission Estimation Excluded Bunker Oil for Overseas, Jet Oil for International Flight and Renewable Energy

Table 8.1-4M
CO₂ Emission in Transport by Energy Type

Unit : 1,000 Tons

	Oil	Coal/Lignite	Natural Gas	Total
2005				
Jan	5,003		10	5,013
Feb	4,954		10	4,964
Mar	5,201		12	5,213
Apr	4,968		10	4,978
May	5,195		11	5,205
Jun	5,008		11	5,019
Jul	4,388		11	4,399
Aug	4,696		13	4,708
Sep	4,283		12	4,294
Oct	4,332		12	4,344
Nov	4,495		13	4,508
Dec	4,862		13	4,875
YTD	57,383		137	57,520
2006				
Jan	4,712		16	4,728
Feb	4,407		13	4,420
Mar	4,997		16	5,013
Apr	4,613		14	4,628
May	4,750		17	4,767
Jun	4,407		17	4,424
Jul	4,372		17	4,389
Aug	4,372		23	4,395
Sep	4,219		22	4,241
Oct	4,394		25	4,419
Nov	4,604		25	4,629
Dec	4,754		24	4,778
YTD	54,601		230	54,831
2007				
Jan	4,758		25	4,784
Feb	4,374		26	4,400
Mar	4,953		33	4,986
Apr	4,604		33	4,637
May	4,579		35	4,615
Jun	4,638		38	4,675
Jul	4,480		40	4,520
Aug	4,650		44	4,694
Sep	4,323		47	4,370
Oct	4,506		53	4,559
Nov	4,498		59	4,557
Dec	4,708		66	4,774
YTD	55,071		500	55,571

Table 8.1-4M (Cont.)
CO₂ Emission in Transport by Energy Type

Unit : 1,000 Tons

	Oil	Coal/Lignite	Natural Gas	Total
2008				
Jan	4,660		74	4,735
Feb	4,336		79	4,415
Mar	4,715		93	4,808
Apr	4,530		99	4,629
May	4,376		113	4,489
Jun	3,947		126	4,073
Jul	3,739		150	3,889
Aug	3,938		165	4,103
Sep	3,802		171	3,973
Oct	4,113		192	4,305
Nov	4,077		189	4,266
Dec	4,645		195	4,840
YTD	50,877		1,647	52,524
2009				
Jan	4,801		211	5,012
Feb	4,075		216	4,291
Mar	4,633		249	4,882
Apr	4,479		220	4,699
May	4,665		241	4,906
Jun	4,202		247	4,449
Jul	4,303		257	4,560
Aug	4,240		270	4,510
Sep	4,086		263	4,349
Oct	4,295		278	4,573
Nov	4,234		278	4,512
Dec	4,825		302	5,127
YTD	52,838		3,033	55,871
Growth Rate (%)				
2006	-4.9		67.8	-4.7
2007	0.9		117.6	1.4
2008	-7.6		229.4	-5.5
2009	3.9		84.2	6.4

Notes: 1. CO₂ Emission Factors Reference from IPCC2006

2. Emission Estimation Excluded Bunker Oil for Overseas, Jet Oil for International Flight and Renewable Energy

Table 8.1-5M
CO₂ Emission in Industry by Energy Type

Unit : 1,000 Tons

	Oil	Coal/Lignite	Natural Gas	Total
2005				
Jan	838	2,220	498	3,555
Feb	891	2,090	416	3,396
Mar	1,046	2,508	478	4,032
Apr	1,008	2,229	419	3,656
May	1,059	2,321	459	3,839
Jun	958	2,143	444	3,545
Jul	974	2,117	451	3,541
Aug	926	1,927	509	3,361
Sep	987	2,067	488	3,542
Oct	1,011	1,979	487	3,477
Nov	835	1,942	498	3,275
Dec	876	2,026	477	3,379
YTD	11,408	25,567	5,624	42,599
2006				
Jan	838	2,051	510	3,399
Feb	956	2,236	462	3,654
Mar	986	2,385	524	3,894
Apr	894	1,867	471	3,233
May	898	1,926	553	3,376
Jun	980	1,988	521	3,489
Jul	904	1,922	532	3,358
Aug	831	1,901	567	3,299
Sep	720	1,934	533	3,186
Oct	681	1,964	580	3,225
Nov	671	1,904	585	3,160
Dec	699	2,513	571	3,783
YTD	10,058	24,590	6,408	41,057
2007				
Jan	763	2,462	678	3,903
Feb	756	2,135	603	3,495
Mar	859	2,305	624	3,788
Apr	820	2,635	617	4,073
May	793	1,792	664	3,249
Jun	801	1,714	619	3,134
Jul	728	2,135	627	3,490
Aug	747	2,764	691	4,202
Sep	822	1,768	637	3,226
Oct	889	2,113	723	3,724
Nov	765	2,121	700	3,586
Dec	795	2,409	698	3,902
YTD	9,536	26,353	7,881	43,770

Table 8.1-5M (Cont.)
CO₂ Emission in Industry by Energy Type

Unit : 1,000 Tons

	Oil	Coal/Lignite	Natural Gas	Total
2008				
Jan	765	2,574	733	4,073
Feb	703	2,497	715	3,915
Mar	846	2,536	760	4,143
Apr	923	2,551	757	4,230
May	754	2,588	788	4,130
Jun	680	2,705	750	4,134
Jul	724	2,647	857	4,228
Aug	742	2,490	826	4,058
Sep	692	2,488	840	4,019
Oct	705	2,405	807	3,917
Nov	655	2,228	742	3,626
Dec	687	2,070	764	3,522
YTD	8,877	29,778	9,338	47,993
2009				
Jan	693	2,175	827	3,695
Feb	630	2,188	798	3,615
Mar	673	2,281	924	3,878
Apr	633	2,841	855	4,329
May	671	2,708	914	4,293
Jun	640	2,948	951	4,539
Jul	645	2,761	930	4,336
Aug	651	2,662	949	4,262
Sep	643	2,723	997	4,363
Oct	736	2,314	1,061	4,112
Nov	649	2,656	1,032	4,337
Dec	738	2,925	1,018	4,682
YTD	8,003	31,182	11,256	50,441
Growth Rate (%)				
2006	-11.8	-3.8	13.9	-3.6
2007	-5.2	7.2	23.0	6.6
2008	-6.9	13.0	18.5	9.7
2009	-9.9	4.7	20.5	5.1

Notes: 1. CO₂ Emission Factors Reference from IPCC2006

2. Emission Estimation Excluded Bunker Oil for Overseas, Jet Oil for International Flight and Renewable Energy

Table 8.1-6M
CO₂ Emission in Other Economic Sectors by Energy Type

Unit : 1,000 Tons

	Oil	Coal/Lignite	Natural Gas	Total
2005				
Jan	1,341			1,341
Feb	1,288			1,288
Mar	1,404			1,404
Apr	1,309			1,309
May	1,378			1,378
Jun	1,335			1,335
Jul	1,217			1,217
Aug	1,291			1,291
Sep	1,169			1,169
Oct	1,192			1,192
Nov	1,219			1,219
Dec	1,330			1,330
YTD	15,474			15,474
2006				
Jan	1,382			1,382
Feb	1,301			1,301
Mar	1,454			1,454
Apr	1,334			1,334
May	1,408			1,408
Jun	1,314			1,314
Jul	1,314			1,314
Aug	1,338			1,338
Sep	1,272			1,272
Oct	1,313			1,313
Nov	1,366			1,366
Dec	1,423			1,423
YTD	16,220			16,220
2007				
Jan	1,466			1,466
Feb	1,341			1,341
Mar	1,502			1,502
Apr	1,385			1,385
May	1,407			1,407
Jun	1,408			1,408
Jul	1,380			1,380
Aug	1,448			1,448
Sep	1,344			1,344
Oct	1,414			1,414
Nov	1,446			1,446
Dec	1,476			1,476
YTD	17,017			17,017

Table 8.1-6M (Cont.)
CO₂ Emission in Other Economic Sectors by Energy Type

Unit : 1,000 Tons

	Oil	Coal/Lignite	Natural Gas	Total
2008				
Jan	1,552			1,552
Feb	1,436			1,436
Mar	1,572			1,572
Apr	1,509			1,509
May	1,503			1,503
Jun	1,372			1,372
Jul	1,351			1,351
Aug	1,390			1,390
Sep	1,348			1,348
Oct	1,434			1,434
Nov	1,409			1,409
Dec	1,562			1,562
YTD	17,438			17,438
2009				
Jan	1,621			1,621
Feb	1,385			1,385
Mar	1,548			1,548
Apr	1,497			1,497
May	1,563			1,563
Jun	1,449			1,449
Jul	1,489			1,489
Aug	1,480			1,480
Sep	1,443			1,443
Oct	1,513			1,513
Nov	1,490			1,490
Dec	1,678			1,678
YTD	18,157			18,157
Growth Rate (%)				
2006	4.8			4.8
2007	4.9			4.9
2008	2.5			2.5
2009	4.1			4.1

Notes: 1. CO₂ Emission Factors Reference from IPCC2006

2. Emission Estimation Excluded Bunker Oil for Overseas, Jet Oil for International Flight and Renewable Energy

APPENDIX II



ค่าการแปลงหน่วย CONVERSION FACTORS
ปริมาณพลังงานของเชื้อเพลิง (ค่าความร้อนสุทธิ)
ENERGY CONTENT OF FUEL (NET CALORIFIC VALUE)

ประเภท (หน่วย)	กิโลแคลอรี/ หน่วย kcal/UNIT	ต้นเทียบเท่า น้ำมันดิบ/ ล้านหน่วย toe/10 ⁶ UNIT	เมกะจูล/ หน่วย MJ/UNIT	พันบีทียู/ หน่วย 10 ³ Btu/ UNIT	TYPE (UNIT)
พลังงานเชิงพาณิชย์					COMMERCIAL ENERGY
1. น้ำมันดิบ (ลิตร)	8680	860.00	36.33	34.44	1. CRUDE OIL (litre)
2. คอนเดนเสท (ลิตร)	7900	782.72	33.07	31.35	2. CONDENSATE (litre)
3. ก๊าซธรรมชาติ					3. NATURAL GAS
3.1 ชื้น (ลูกบาศก์ฟุต)	248	24.57	1.04	0.98	3.1 WET (scf.)
3.2 แห้ง (ลูกบาศก์ฟุต)	244	24.18	1.02	0.97	3.2 DRY (scf.)
4. ผลิตภัณฑ์ปิโตรเลียม					4. PETROLEUM PRODUCTS
4.1 ก๊าซปิโตรเลียมเหลว (ลิตร)	6360	630.14	26.62	25.24	4.1 LPG (litre)
4.2 น้ำมันเบนซิน (ลิตร)	7520	745.07	31.48	29.84	4.2 GASOLINE (litre)
4.3 น้ำมันเครื่องบิน (ลิตร)	8250	817.40	34.53	32.74	4.3 JET FUEL (litre)
4.4 น้ำมันก๊าด (ลิตร)	8250	817.40	34.53	32.74	4.4 KEROSENE (litre)
4.5 น้ำมันดีเซล (ลิตร)	8700	861.98	36.42	34.52	4.5 DIESEL (litre)
4.6 น้ำมันเตา (ลิตร)	9500	941.24	39.77	37.70	4.6 FUEL OIL (litre)
4.7 ยางมะตอย (ลิตร)	9840	974.93	41.19	39.05	4.7 BITUMEN (litre)
4.8 ปิโตรเลียมโค้ก (กก.)	8400	832.26	35.16	33.33	4.8 PETROLEUM COKE (litre)
5. ไฟฟ้า (กิโลวัตต์ชั่วโมง)	860	85.21	3.60	3.41	5. ELECTRICITY (kWh)
6. ไฟฟ้าพลังน้ำ (กิโลวัตต์ชั่วโมง)	2236	221.54	9.36	8.87	6. HYDROELECTRIC (kWh)
7. พลังงานความร้อนใต้พิภพ (กิโลวัตต์ชั่วโมง)	9500	941.24	39.77	37.70	7. GEOTHERMAL (kWh)
8. ถ่านหินนำเข้า (กก.)	6300	624.19	26.37	25.00	8. COAL IMPORT (kg.)
9. ถ่านโค้ก (กก.)	6600	653.92	27.63	26.19	9. COKE (kg.)
10. แอนทราไซต์ (กก.)	7500	743.09	31.40	29.76	10. ANTHRACITE (kg.)
11. อีเทน (กก.)	11203	1110.05	46.89	44.45	11. ETHANE (kg.)
12. โพรเพน (กก.)	11256	1115.34	47.11	44.67	12. PROPANE (kg.)
13. ลิกไนต์					13. LIGNITE
13.1 ลี (กก.)	4400	435.94	18.42	17.46	13.1 LI (kg.)
13.2 กระบี่ (กก.)	2600	257.60	10.88	10.32	13.2 KRABI (kg.)
13.3 แม่เมาะ (กก.)	2500	247.70	10.47	9.92	13.3 MAE MOH (kg.)
13.4 แจ็คอน (กก.)	3610	357.67	15.11	14.32	13.4 CHAE KHON (kg.)

ค่าการแปลงหน่วย CONVERSION FACTORS
ปริมาณพลังงานของเชื้อเพลิง (ค่าความร้อนสุทธิ)
ENERGY CONTENT OF FUEL (NET CALORIFIC VALUE)

ประเภท (หน่วย)	กิโลแคลอรี/ หน่วย kcal/UNIT	ตันเทียบเท่า น้ำมันดิบ/ ล้านหน่วย toe/10 ⁶ UNIT	เมกะจูล/ หน่วย MJ/UNIT	พันบีทียู/ หน่วย 10 ³ Btu/ UNIT	TYPE (UNIT)
พลังงานใหม่และหมุนเวียน					NEW & RENEWABLE ENERGY
1. ฟืน (กก.)	3820	378.48	15.99	15.16	1. FUEL WOOD (kg.)
2. ถ่าน (กก.)	6900	683.64	28.88	27.38	2. CHARCOAL (kg.)
3. แกลบ (กก.)	3440	340.83	14.40	13.65	3. PADDY HUSK (kg.)
4. กากอ้อย (กก.)	1800	178.34	7.53	7.14	4. BAGASSE (kg.)
5. ขยะ (กก.)	1160	114.93	4.86	4.60	5. GARBAGE (kg.)
6. ขี้เลื่อย (กก.)	2600	257.60	10.88	10.32	6. SAW DUST (kg.)
7. วัสดุเหลือใช้ ทางการเกษตร (กก.)	3030	300.21	12.68	12.02	7. AGRICULTURAL WASTE (kg.)
8. ก๊าซชีวภาพ (ลูกบาศก์เมตร)	5000	495.39	20.93	19.84	8. BIOGAS (m ³)

หน่วยทั่วไป GENERAL		
1 กิโลแคลอรี (kcal)	= 4186	จูล (joules)
	= 3.968	บีทียู (Btu)
1 ตันเทียบเท่าน้ำมันดิบ (toe)	= 10.093	จิกะแคลอรี (Gcal)
	= 42.244	จิกะจูล (GJ)
	= 40.047 x 10 ⁶	บีทียู (Btu)
1 บาร์เรล (barrel)	= 158.99	ลิตร (litres)
1 ลูกบาศก์เมตรของไม้ (cu.m. of solid wood)	= 600	กิโลกรัม (kg.)
1 ลูกบาศก์เมตรของถ่าน (kg. of charcoal)	= 250	กิโลกรัม (kg.)
5 กิโลกรัมของฟืน (kg. of fuel wood)	= 1 กิโลกรัมของถ่าน (kg. of charcoal product)	
1 ลิตรของก๊าซปิโตรเลียมเหลว (litre of LPG)	= 0.54	กิโลกรัม (kg.)

ที่มา : รายงานพลังงานของประเทศไทยรายปี กรมพัฒนาพลังงานทดแทนและอนุรักษ์พลังงาน

Appendix II Abbreviations of the Sources Statistics

Abbreviation	Full Name	ชื่อไทย
%S	Percentage of Sulphur Contain	ร้อยละของกำมะถัน
AVG	Average	เฉลี่ย
BBL/D	Barrels per Day	บาร์เรลต่อวัน
BCP	Bangchak Petroleum Public Company Limited	บริษัทบางจากปิโตรเลียม จำกัด (มหาชน)
CNG	Compressed Natural Gas	ก๊าซธรรมชาติที่ใช้เป็นเชื้อเพลิงสำหรับยานยนต์
DEDP	Small Hydro From Kere Tan	โรงไฟฟ้าพลังน้ำคีรีธาร
DEDE	Department of Alternative Energy Development and Efficiency	กรมพัฒนาพลังงานทดแทน และอนุรักษ์พลังงาน
DMF	Department of Mineral Fuels	กรมเชื้อเพลิงธรรมชาติ
DOEB	Department of Energy Business	กรมธุรกิจพลังงาน
EGAT	Electricity Generating Authority of Thailand	การไฟฟ้าฝ่ายผลิตแห่งประเทศไทย
ELEC.	Electricity	ไฟฟ้า
EPPO	Energy Policy and Planning Office	สำนักงานนโยบายและแผนพลังงาน
ESSO	Esso (Thailand) Public Company Limited	บริษัทเอสโซ่ (ประเทศไทย) จำกัด (มหาชน)
FO	Fuel Oil	น้ำมันเตา
GSP	Gas Separation Plant	โรงแยกก๊าซ
GWh	Gigawatt-hours	ล้านกิโลวัตต์ชั่วโมง
HSD	High Speed Diesel	ดีเซลหมุนเร็ว
IPP	Independent Power Producers	ผู้ผลิตไฟฟ้าเอกชนรายใหญ่
IRPC	Integrated Refinery & Petrochemical Complex Public Company Limited	บริษัท ไออาร์พีซี จำกัด (มหาชน)
J.P.	Jet Fuel	น้ำมันเครื่องบิน
JDA	Joint Development Area	พื้นที่พัฒนาร่วมระหว่างไทยกับมาเลเซีย
KBD	1,000 Barrels/Day	พันบาร์เรลต่อวัน
KTOE	1,000 Tons of Crude Oil Equivalent	พันตันเทียบเท่าน้ำมันดิบ
LPG	Liquefied Petroleum Gas	ก๊าซปิโตรเลียมเหลว
LPG (Car)	Liquefied Petroleum Gas for Automobiles	ก๊าซปิโตรเลียมเหลวที่ใช้ในรถยนต์
LSD	Low Speed Diesel	ดีเซลหมุนช้า
M.Litres	Million litres	ล้านลิตร
MEA	Metropolitan Electricity Authority	การไฟฟ้านครหลวง
MMscfd	Million Standard Cubic Feet per Day	ล้านลูกบาศก์ฟุตต่อวัน
MW	Mega Watt	เมกะวัตต์
NAP	Naptha	แนฟทา
Nap.& Oths	Naptha and Others	น้ำมันแนฟทาและอื่น ๆ
NG	Natural Gas	ก๊าซธรรมชาติ
NGL	Natural Gas Liquid	ก๊าซโซลีนธรรมชาติ
NGV	Natural Gas for Vehicles	ก๊าซธรรมชาติสำหรับยานยนต์
NPC	National Petrochemical Company	บริษัทปิโตรเคมีแห่งชาติ จำกัด (มหาชน)
PEA	Provincial Electricity Authority	การไฟฟ้าส่วนภูมิภาค
Pet.	Petroleum	น้ำมันสำเร็จรูป
PTTAR	PTT Aromatics and Refining Public Company Limited	บริษัท ปตท. อะโรมาติกส์และการกลั่น จำกัด (มหาชน)
REGCO	Rayong Electricity Generating Company Limited	บริษัท ผลิตไฟฟ้าระยอง จำกัด
RPC	Rayong Purifier Public Company Limited	บริษัท ทรัพยากรเพียวริไฟเออร์ จำกัด (มหาชน)
SPP	Small Power Producers	ผู้ผลิตไฟฟ้าเอกชนรายเล็ก
SPRC	Star Petroleum Refining Company Limited	บริษัทสตาร์ ปิโตรเลียม รีไฟน์นิ่ง จำกัด
TOC	Thai Oil Public Company Limited	บริษัทไทยออยล์ จำกัด (มหาชน)
IRPC	IRPC Public Company Limited	บริษัทไออาร์พีซี จำกัด (มหาชน)
UGR91	Regular Gasoline 91	เบนซินธรรมดา 91
ULG95	Premium Gasoline 95	เบนซินพิเศษ 95
VAT	Value Added Tax	ภาษีมูลค่าเพิ่ม
WT.AVG	Weighted Average	ค่าเฉลี่ยถ่วงน้ำหนัก
YTD	Year to Date	ข้อมูลตั้งแต่วันที่ 1 มกราคมปีนั้น ๆ ถึงวันที่ออกรายงาน

รายชื่อผู้จัดทำรายงานสถิติพลังงานปี 2553

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